GROUNDWATER PERFORMANCE MONITORING REPORT

June 2012 Sampling

ROTH BROS. SMELTING CORP.
CORRECTIVE ACTION MANAGEMENT UNIT (CAMU)

Prepared For:
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Engineers • Environmental Scientists • Planners • Landscape Architects

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1.0 INTRODUCTION

This report presents the results of the June 2012 groundwater monitoring performed at the Corrective Action Management Unit (CAMU) located at the former Wabash Aluminum Alloys, LLC (Wabash) facility located at 6223 Thompson Road, East Syracuse, Onondaga County, New York (Site). The Plant #2 portion of the site is now owned by Metalico Syracuse Realty, Inc. (MSR), and Thompson Corners, LLC owns the Plant #1 portion of the Site.

Metalico Aluminum Recovery, Inc. (MARI) currently operates a scrap metal recycling facility and a secondary aluminum smelting operation at the MSR portion of the site. By agreement with Wabash, MARI assumed "Wabash's obligations to conduct ongoing environmental monitoring and testing at the Site" under a Consent Order with the New York State Department of Environmental Conservation (NYSDEC) that was entered into by Roth Bros. Smelting Corp. (Index # C7-0001-94-10), the owner of the Site at the time the CAMU was constructed. To satisfy this contractual obligation, MARI retained Barton & Loguidice, P.C., to prepare this report.

This report has been prepared in accordance with the site Operations and Maintenance Plan (Malcolm Pirnie, 1997) and the subsequent Sampling & Analysis Plan revisions [Appendix D to the Operations and Maintenance Plan] as a result of letter correspondence with NYSDEC in 2002, and the approval letter from NYSDEC in April 2011.

Samples were collected from nine (9) monitoring wells and two (2) surface water/sediment sampling locations on June 18, 2012. Two (2) sediment and three (3) monitoring well locations were re-sampled for confirmatory analysis of results inconsistent with historical data on July 31 and August 9, 2012, respectively. All samples were collected by personnel from Barton & Loguidice, P.C. and were submitted to and analyzed by Columbia Analytical Services (CAS) in Rochester, New York.

Figure 1 shows the location of the Plant #1 and Plant #2 properties. The asphalt-paved CAMU area is located north of Plant #2. The monitoring locations associated with the CAMU groundwater performance monitoring, are included on Figure 1.

Groundwater sampling was performed on a quarterly basis prior to June 2005 after which semi-annual monitoring was performed through 2010. Beginning with the June 2011 monitoring event, sampling is now performed on an annual basis in June of each year. This report addresses the data generated from the June 2012 monitoring.

2.0 CAMU GROUNDWATER, SURFACE WATER, AND SEDIMENT PERFORMANCE MONITORING

2.1 Monitoring Well Inspection

The following monitoring wells are sampled as part of the CAMU Groundwater Monitoring Performance Program (see Figure 1):

B291	B281	B290	B401	B286*
B402R	B403	B404	MW-8R	*Requested by NYSDEC

Over the course of time, several CAMU monitoring wells have been inadvertently damaged, destroyed, or needed maintenance including:

- Monitoring well B280, formerly located north of the CAMU, was destroyed in September 2000. Based on its adjacent location, monitoring well B291 replaced monitoring well B280.
- Between the June 2004 and September 2004 sampling events, monitoring well B402 was destroyed. Monitoring well B402R was installed in November 2005 and began to be sampled for the December 2005 sampling event. The destroyed well (B402) was properly decommissioned using a rotary drilling rig on April 24, 2007.
- Monitoring well MW-8, installed as part of the 2001 Groundwater Investigation, was destroyed during construction of scrap yard improvements. Subsequently, monitoring well MW-8R was installed adjacent to the MW-8 location for inclusion in the CAMU Groundwater Performance Monitoring Program. The wellhead for monitoring well MW-8R was replaced on April 24, 2007 due to deterioration.
- On April 24, 2007 the area surrounding well B291 was cleared of vegetation, and the existing damaged flush-mounted well cover was removed and replaced with a stick-up-type protective casing installed in a concrete base. The wellhead was vertically surveyed relative to well B402R, with the new reference elevation being calculated at 410.86. A new, lockable well plug was installed in the well opening.
- In an effort to avoid further well damage or loss prior to the December 2008 sampling event, all of the facility monitoring wells were painted, labeled and affixed with pole extensions and flagging. The wells were also fitted with new keyed alike locks. It was also noted that all the wells had old deteriorating polyethylene tubing dedicated to each well which is not a standard field sampling practice. All of the old tubing was removed from the wells and disposed of. New tubing for each well is now utilized during each round of sampling and then removed and disposed of properly when sampling is completed.

All of the required CAMU wells were sampled in June 2012. Additionally, monitoring well B286 and surface water/ sediment monitoring locations SW-002A and SW-002B were sampled during the June 2012 monitoring event.

2.2 Groundwater, Surface Water, and Sediment Monitoring Work

This section describes the field and laboratory procedures that were followed during this monitoring event. Table 1 provides a summary of the sampling frequency and the analytical parameters for each monitoring well for the CAMU groundwater monitoring program that began in 1998.

(a) Groundwater Contour Map

Prior to the sampling of the groundwater monitoring wells, the static water level of each monitoring well was measured. This work was performed using an electronic water level sensor capable of measuring to an accuracy of +/- 0.01 foot. The water level probe was decontaminated between wells by washing in an Alconox/water solution and rinsing with distilled water.

Figure 1 presents a groundwater contour map that reflects the water level data, which is set forth in Table 2. Table 2 also includes water level data for the nine (9) prior groundwater sampling events.

The contour map indicates that the general groundwater flow direction at the Site is to the northeast toward the South Branch of Ley Creek. This finding is consistent with historical groundwater contour data.

(b) Groundwater, Surface Water, and Sediment Sampling & Analysis

Each of the monitoring wells were redeveloped and purged prior to sampling. Water surface elevations and field parameters were measured after purging and immediately prior to sample collection.

Redevelopment of the wells was performed with a disposable hand bailer. Purging and sampling of the monitoring wells was conducted using a low-flow peristaltic pump with new non-dedicated tubing at each location. Purging was performed until a minimum of three (3) well volumes were removed or until the well went dry. Groundwater samples were collected after purging and sufficient recharge occurred, also utilizing the low-flow peristaltic pump.

Surface water and sediment grab samples were collected from two sampling locations (SW-002A and SW-002B) in the small section of open drainage swale which runs along the CSX railroad track directly east and downgradient from SPDES Outfall 002.

Collected samples were placed into clean coolers and kept on ice at 4°C until delivery to Columbia Analytical Services, Inc.

Appendix A includes the field sampling data sheets and chain of custody records associated with this round of sampling.

(c) Monitoring Results

Table 3 provides an historical summary of the analytical groundwater data for this project, including the results of the June 2012 groundwater monitoring. Table 4 provides a summary of the surface water and sediment analytical data for the June 2012 monitoring event. Appendix B contains the analytical laboratory reports prepared by Columbia Analytical Services, Inc. (NYSDOH Laboratory I.D. # 10145). Data are highlighted, as appropriate, to indicate detected concentrations that exceed the following NYSDEC Class GA Groundwater Standards:

Parameter	Class GA Standard	Class D Surface Water Standard[1]	Part 375 Restricted Soil Use Cleanup Objectives (Industrial)
pH	6.5 – 8.5 Std. Units	6.0-9.5 Std. Units	N/A
Lead	0.025 mg/l	0.025 mg/l [2]	3900 ppm
Arsenic	0.025 mg/l	0.025 mg/l [2]	16 ppm
Aroclor 1016	0.09 ug/l*	0.00012 ug/l*	25 ppm
Aroclor 1221	0.09 ug/l*	0.00012 ug/l*	25 ppm
Aroclor 1232	0.09 ug/l*	0.00012 ug/l*	25 ppm
Aroclor 1242	0.09 ug/l*	0.00012 ug/l*	25 ppm
Aroclor 1248	0.09 ug/l*	0.00012 ug/l*	25 ppm
Aroclor 1254	0.09 ug/l*	0.00012 ug/l*	25 ppm
Aroclor 1260	0.09 ug/l*	0.00012 ug/l*	25 ppm
Aroclor 1262	0.09 ug/l*	0.00012 ug/l*	25 ppm
Aroclor 1268	0.09 ug/l*	0.00012 ug/l*	25 ppm

Notes: [1]In the absence of hardness data, the Class GA standard has been conservatively applied
[2]Dissolved Form
*Limit applies to sum of all Aroclors

The results of the June 2012 sampling event indicate that the groundwater quality conditions at the CAMU have remained generally consistent since the last monitoring event and appear to correspond with historical groundwater quality data. The following sections summarize the analytical data collected during this sampling event:

pH – The Class GA standard for pH was not exceeded within any monitoring location.

PCBs – During the June 2012 monitoring event MW-8R exceeded the NYSDEC Class GA groundwater standard for Aroclor 1254, and was re-sampled on August 9, 2012 to confirm the detection of Aroclor 1254. The MW-8R re-sample results post well development, exhibited substantially reduced Aroclor concentration values.

The low level Aroclor 1260 re-analysis result was qualified with a "P" indicating that there was a difference of greater than 40% between the two gas chromatograph columns utilized. The PCB analytical results were highly variable between monitoring events, and are also shown to be

variable between analytical runs when the same sample is being utilized. It should be noted that there were no PCB's detected in well B286 and that both monitoring wells are located upgradient of the CAMU.

Low level Aroclor detections (i.e., <1 ppm) were observed within the drainage swale soil samples at both SW-002A and SW-002B. The reported concentration values were below Part 375 Cleanup Objectives (Industrial). As a voluntary maintenance effort a remedial contractor was retained to remove any residual contaminated soil from the drainage swale.

There were no other PCB detections reported for the June 2012 monitoring event.

Specific Conductivity – Monitoring location 8R exhibited an elevated specific conductivity result during the 2012 monitoring event. No Class GA standard for specific conductivity is currently established. Salts used in the processes at the site are stockpiled in a storage bay immediately adjacent to MW-8R. It is suspected that surface contamination is likely infiltrating the flush mounted well resulting in elevated conductivity readings.

Total & Dissolved Lead – Monitoring well B-290 exhibited a total lead concentration of 0.305 mg/L for the June 2012 monitoring event. This value exceeds the Class GA standard of 0.025 mg/L. Dissolved lead was not detected (<0.050 mg/L) at location B-290. Historical results suggest increased total metals concentrations are linked to elevated turbidity levels. The absence of dissolved lead at this location suggests the total lead levels observed are likely related to the silts and sediments entering through the screened portion of the well during sampling and are not mobile in the groundwater. B-290 was re-sampled on August 9, 2012 for confirmatory results and total lead was not detected.

It is suspected that the June result was likely associated with the aggressive well redevelopment effort performed just prior to sampling. There were no other lead detections reported for the 2012 monitoring event.

Total & Dissolved Arsenic – Monitoring location B-290 also exhibited a total arsenic concentration of 0.036 mg/l for the June 2012 monitoring event. This value exceeded the Class GA standard of 0.025 mg/l. Dissolved arsenic was not detected. This again suggests the total arsenic levels observed are related to the sediments entering through the screened portion of the monitoring well during purging and sample collection and are not mobile in the groundwater. As previously reported, B-290 was re-sampled for confirmatory results. The B-290 re-sample result for total arsenic was below the Class GA groundwater standard.

Total Arsenic was detected at concentrations below the groundwater standard at locations MW-8R and B-402R. These results are consistent with the limited historical data for these two locations.

Figures

METALICO ALUMINUM RECOVERY, INC.
FACILITY NO. 7102372
JUNE, 2012
GROUNDWATER CONTOUR MAP

ONONDAGA COUNTY, NEW YORK
EAST SYRACUSE

N

B-281 (417.31)

MW-8R (412.46)

B-401 (405.11)

B-291 (402.37)

B-404 (404.33)

B-402R (405.03)

B-290 (409.25)

B-403 (406.95)

SW-002A

SW-002B

JOHN & M. SUSAN SCHNEID
BOOK 3176 OF DEEDS, PAGE 338

MIDLER PARK DRIVE

G & R PROPERTIES, LLC
BOOK 4377 OF DEEDS, PAGE 124

ONONDAGA SUBDIVISION CO., INC.
BOOK 1869 OF DEEDS, PAGE 525x

CONSOLIDATED RAIL CORPORATION

NIAGARA MOHAWK POWER CORPORATION

METAL BLDG.
BLDG.
METAL BLDG.
GAS HOUSE
METAL SHED
BUILDING
METAL BUILDING WITH STORAGE BINS
STORAGE BINS
ELEC.
WALLS
CONCRETE
SCRAP METAL STORAGE
DRIVING LANE
MAIN BUILDING
EXISTING BUILDING AREA = 109,209 Sq. Ft.
ADDN.
CAMU AREA
PROPANE STORAGE BUILDING
SCALE
GAS LINE MKR
GAS TEST
UG TEL MH
UG TEL MKR POST
OVERHEAD PNEUMATIC TUBE
20'
350'± PROPOSED LANDSCAPE EASEMENT
30'
OVERHEAD PIPES ON STEEL I-BEAMS
PLANT NO. 1 EXISTING BUILDING
STAIRS
CNY SANDTRAP, LLC
BOOK 4838 OF DEEDS, PAGE 204
BLOWER HOUSE
BAG HOUSE
PROPANE BLDG.
PUMP
ELEC.
STEEL COVER
BIN WALLS
WRE PROPERTIES, LLC
BOOK 4331 OF DEEDS, PAGE 207
RUPP RENTAL & SALES CORP.
BOOK 2724 OF DEEDS, PAGE 57
SHED STORAGE
ROTH BROTHERS
USWITCH GEAR

PARCEL NO. 2
METALICO SYRACUSE REALTY, Inc.
AREA = 22.405± ACRES

PARCEL NO. 3
WABASH ALUMINUM ALLOYS
AREA = 0.605± ACRE

LEGEND:

- PROPERTY LINE
- 408 GROUNDWATER CONTOUR
- PAVED CAMU AREA
- GROUNDWATER MONITORING WELL
- SURFACE WATER/SEDIMENT MONITORING LOCATION

125' 0 125'
1"=125'

Barton & Loguidice, P.C.

Date	JUNE, 2012
Scale	1" = 125'
Figure Number	1
Project Number	1206.002

Plotted: Nov 07, 2012 - 7:59AM SYR By: jgs
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Tables

Table 1
CAMU Monitoring Schedule

Sampling Frequency	Parameter	Analytical Method	MDL	Well Location
Annual (June)	Arsenic (Total and Dissolved)	EPA Method 6010	3 ug/L	B281
	Lead (Total and Dissolved)		5 ug/L	B290
	PCB's	EPA Method 8082	0.050 ug/L	B291
				B401
				B402R
				B403
				B404
				MW-8R
				SW-002A
				SW-002A Sed
				SW-002B
				SW-002B Sed

Table 2
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Groundwater Elevation Summary Table

Monitoring Well	B107		B108		B281		B290		B291	
WELL DEPTH (FT):	-		9.85		13.03		10.26		12.54	
REFERNCE ELEVATION:	410.61		411.80		423.39		414.61		410.86	
DATE	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL
18-Jun-12	-	-	-	-	417.31	6.08	409.25	5.36	402.37	8.49
22-Jun-11	-	-	-	-	419.27	4.12	409.71	4.90	403.35	7.51
29-Dec-10	NS	NS	409.76	2.04	418.82	4.57	409.63	4.98	404.14	6.72
23-Jun-10	409.55	1.06	409.77	2.03	419.53	3.86	409.69	4.92	404.81	6.05
16-Dec-09	NS	NS	NS	NS	419.28	4.11	409.71	4.90	403.95	6.91
29-Jun-09	409.00	1.61	409.95	1.85	413.75	9.64	409.50	5.11	403.53	7.33
18-Dec-08	NS	NS	NS	NS	419.31	4.08	409.63	4.98	404.43	6.43
05-Jun-08	408.93	1.68	409.01	2.79	417.18	6.21	404.35	10.26	403.72	7.14
31-Dec-07	NS	NS	408.95	2.85	416.66	6.73	409.77	4.84	404.73	6.13
29-Jun-07	408.95	1.66	408.95	2.85	416.44	6.95	410.38	4.23	401.96	8.90
19-Dec-06	NS	NS	NS	NS	420.25	3.14	409.57	5.04	404.43	6.43

Table 2
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Groundwater Elevation Summary Table

Monitoring Well	B401		B402R		B403		B404		8R	
WELL DEPTH (FT):	13.03		12.24		11.26		16.14		10.00	
REFERNCE ELEVATION:	413.54		409.44		411.05		410.77		415.30	
DATE	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL	ELEVATION	SWL
18-Jun-12	405.11	8.43	405.03	4.41	406.95	4.10	404.33	6.44	412.46	2.84
22-Jun-11	405.50	8.04	405.73	3.71	407.94	3.11	406.08	4.69	412.54	2.76
29-Dec-10	407.42	6.12	406.64	2.80	407.98	3.07	406.73	4.04	412.18	3.12
23-Jun-10	407.79	5.75	406.62	2.82	408.23	2.82	407.84	2.93	412.64	2.66
16-Dec-09	408.48	5.06	406.64	2.80	408.11	2.94	407.56	3.21	411.92	3.38
29-Jun-09	406.84	6.70	406.46	2.98	408.05	3.00	406.66	4.11	412.72	2.58
18-Dec-08	408.39	5.15	406.81	2.63	407.91	3.14	406.92	3.85	412.59	2.71
05-Jun-08	404.62	8.92	405.56	3.88	407.42	3.63	405.42	5.35	411.88	3.42
31-Dec-07	408.33	5.21	406.97	2.47	408.08	2.97	407.27	3.50	412.45	2.85
29-Jun-07	404.83	8.71	405.32	4.12	407.20	3.85	404.27	6.50	411.93	3.37
19-Dec-06	407.30	6.24	405.47	3.97	408.01	3.04	406.76	4.01	412.00	3.30

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well 8R)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
8R	Sep-02	-	-	0.004	0.001	**9.21**	933	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-02	-	-	0.002	-	**9.62**	567	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**2.60**	< 0.05	-	-
	Mar-03	-	-	0.001	0.002	**8.82**	551	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.30**	< 0.05	-	-
	Jun-03	-	-	0.002	0.002	**8.59**	726	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.25**	< 0.05	-	-
	Sep-03	-	-	0.002	< 0.001	8.05	441	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**5.90**	< 0.05	-	-
	Dec-03	-	-	0.004	0.002	8.37	576	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**3.60**	< 0.05	-	-
	Mar-04	-	-	0.002	< 0.001	7.91	531	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**2.60**	< 0.05	-	-
	Jun-04	-	-	0.002	< 0.001	8.06	332	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.32**	< 0.05	-	-
	Sep-04	-	-	< 0.001	0.002	7.14	811	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	< 5.00	-	-
	Dec-04	-	-	0.009	< 0.001	7.36	996	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.98**	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.76	1158	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**1.20**	< 0.05	-	-
	Jun-05	-	-	0.002	0.001	8.00	402	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**3.30**	< 0.05	-	-
	Dec-05	-	-	0.001	0.001	7.67	893	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.63**	< 0.05	-	-
	Jun-06	-	-	0.004	< 0.003	8.39	239	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**0.92**	< 0.05	-	-
	Dec-06	-	-	**0.210**	< 0.003	7.46	549	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**9.30**	< 0.05	-	-
	Jun-07	-	-	0.006	< 0.003	8.48	449	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**3.90**	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	8.47	1113	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**0.70**	< 1.00	-	-
	Jun-08	-	-	**0.210**	< 0.003	7.81	1459	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**6.40**	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	7.68	2668	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	7.30	780	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**16.00**	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.10	1010	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	**6.90**	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	< 0.003	< 0.003	7.40	22	< 2.00	< 2.00	< 2.00	< 2.00	< 2.00	**9.20**	< 2.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	7.40	11200	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	**1.70 J**	< 1.00	-	-
	Jun-11	0.013	0.013	< 0.003	< 0.003	7.10	10400	< 10.00	< 10.00	< 10.00	< 10.00	< 10.00	**23.00**	< 10.00	< 10.00	< 10.00
	Jun-12	0.016	0.012	< 0.050	< 0.050	6.90	15300	-	-	-	< 0.47	< 0.47	**15.00**	< 0.47	-	-
	Aug-12	0.016	< 0.010	< 0.050	< 0.050	6.90	12500	< 0.05	< 0.05	< 0.05	< 0.47	**0.80**	**1.30**	**0.18 P**	-	-

Metalico Aluminum Recovery, Inc.; Syracuse Facility
Table 3
ROTH BROS. SMELTING CORP.
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B281)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B281	Jun-98	-	-	< 0.002	< 0.002	6.53	2690	-	-	-	-	-	-	-	-	-
	1999	-	-	< 0.010	< 0.010	7.47	3120	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	-	-
	Jun-00	-	-	< 0.001	< 0.001	6.72	2630	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-00	-	-	< 0.001	< 0.001	7.02	2560	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	< 0.001	< 0.001	7.28	1956	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	< 0.001	< 0.001	7.24	2020	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	**0.037**	0.017	< 0.001	< 0.001	-	-	-	-	-	-	-	-	-	-	-
	Sep-02	0.023	< 0.010	< 0.001	< 0.001	6.86	3000	-	-	-	-	-	-	-	-	-
	Dec-02	-	-	< 0.001	-	7.03	2060	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	< 0.001	< 0.001	7.27	1063	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	0.001	< 0.001	7.32	3010	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	< 0.010	< 0.001	7.29	3170	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-03	0.017	< 0.001	0.002	0.001	7.27	2170	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	**0.031**	0.017	< 0.001	< 0.001	7.18	2230	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	< 0.001	0.001	7.47	2940	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	< 0.001	< 0.001	7.03	2990	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	0.004	< 0.001	7.39	1969	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.48	3000	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	0.016	0.011	< 0.001	< 0.001	7.33	2170	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	0.001	< 0.001	7.19	2430	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	0.010	< 0.003	7.46	2780	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	0.009	0.024	7.17	2430	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	**0.028**	< 0.010	< 0.003	< 0.003	7.32	778	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	**0.064**	< 0.010	< 0.003	< 0.003	**8.71**	321	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	**0.050**	< 0.010	< 0.003	< 0.003	8.04	249	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	7.10	2215	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	**0.035**	< 0.010	< 0.003	< 0.003	7.10	1700	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.00	3900	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	0.014	0.005	< 0.003	< 0.003	7.20	> 20000	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	7.00	410	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	0.016	< 0.005	< 0.003	< 0.003	7.10	3600	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.00	3700	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-

FOIL209323

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B290)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B290	Jun-98	-	-	**41.900**	< 0.020	6.94	2180	-	-	-	-	-	-	-	-	-
	1999	-	-	< 0.010	0.720	7.24	2370	-	-	-	-	-	-	-	-	-
	Jun-00	-	-	**0.045**	< 0.001	6.87	2410	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-00	-	-	**0.050**	< 0.001	7.42	2120	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	**0.092**	< 0.001	7.01	1784	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	0.007	< 0.001	7.01	1693	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	-	-	**0.048**	< 0.001	-	-	-	-	-	-	-	-	-	-	-
	Sep-02	-	-	0.008	< 0.001	6.93	2130	-	-	-	-	-	-	-	-	-
	Dec-02	-	-	**0.042**	-	7.13	1707	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	0.002	< 0.001	7.38	1451	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	**0.059**	< 0.001	7.37	2420	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	0.021	< 0.001	7.17	2240	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-03	-	-	0.008	0.002	8.08	1322	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	-	-	< 0.001	< 0.001	7.49	1590	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	0.001	< 0.001	7.45	1711	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	0.008	< 0.001	7.24	2410	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	< 0.001	0.003	7.41	1822	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	0.013	< 0.001	7.52	2450	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	-	-	0.012	< 0.001	7.68	1663	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	0.002	< 0.001	7.17	2600	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	0.023	< 0.003	7.67	1676	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	0.006	< 0.003	7.26	2430	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	-	-	0.016	0.004	8.10	701	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	0.019	< 0.003	8.47	1431	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	-	-	0.020	< 0.003	8.27	234	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	0.015	< 0.003	7.74	1786	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	7.20	5400	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.50	3600	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	< 0.012	< 0.003	7.10	2400	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	**0.065**	< 0.003	7.30	3300	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	0.011	0.009	0.007	< 0.003	7.10	2300	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	**0.036**	< 0.010	**0.305**	< 0.050	7.10	2900	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Aug-12	0.010	< 0.010	< 0.050	< 0.050	6.90	3500	-	-	-	-	-	-	-	-	-

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Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B291)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B291	Sep-00	-	-	0.007	0.001	7.31	877	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	0.001	0.001	7.24	848	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	0.003	< 0.001	7.01	752	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	0.012	< 0.010	< 0.001	< 0.001	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-02	< 0.010	< 0.010	0.002	< 0.001	7.4	1134	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	0.002	< 0.001	7.37	800	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	0.003	0.001	7.38	1213	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	< 0.001	< 0.001	7.21	898	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-03	0.012	< 0.010	0.008	0.002	**8.81**	804	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	0.020	0.016	0.002	< 0.001	7.31	860	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	0.001	< 0.001	7.53	1167	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	0.003	< 0.001	7.21	746	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	0.001	0.001	7.10	958	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.18	996	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	< 0.010	< 0.010	0.002	0.001	7.36	813	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	0.002	< 0.001	7.23	971	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	< 0.003	< 0.003	7.09	856	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	< 0.003	< 0.003	6.87	968	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	< 0.010	< 0.010	0.010	0.005	7.58	478	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	**8.62**	650	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	< 0.010	< 0.010	< 0.003	< 0.003	8.21	876	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	8.09	592	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	< 0.010	< 0.010	< 0.003	< 0.003	6.90	950	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.30	1130	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	< 0.010	< 0.005	< 0.003	< 0.003	7.00	750	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	7.10	900	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	< 0.005	< 0.005	< 0.003	< 0.003	7.10	890	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.00	900	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B401)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B401	Jun-98	-	-	0.012	< 0.002	-	-	-	-	-	-	-	-	-	-	-
	1999	-	-	0.061	< 0.010	6.69	1510	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-00	-	-	0.044	0.003	6.78	1275	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-00	-	-	0.350	0.002	7.29	1159	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	0.059	0.007	7.44	1180	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	0.033	< 0.001	7.26	810	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	-	-	0.210	< 0.001	-	-	-	-	-	-	-	-	-	-	-
	Sep-02	-	-	0.060	0.002	7.48	644	-	-	-	-	-	-	-	-	-
	Dec-02	-	-	0.013	-	7.27	925	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	0.024	< 0.001	7.32	781	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	0.010	0.003	7.66	1109	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	0.010	0.001	7.15	1126	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-03	-	-	0.021	0.002	8.37	791	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	-	-	0.004	< 0.001	7.48	785	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	**0.031**	< 0.001	7.49	1053	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	0.005	< 0.001	7.11	1030	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	0.002	< 0.001	7.21	937	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	0.003	< 0.001	7.36	1038	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	-	-	0.003	0.001	7.83	814	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	0.007	< 0.001	7.18	1066	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	**0.042**	< 0.003	7.46	986	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	0.011	< 0.003	**6.39**	502	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	-	-	0.008	0.003	7.46	441	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	8.32	691	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	-	-	0.017	< 0.003	8.08	930	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	7.90	693	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	6.90	1110	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.30	1520	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	< 0.003	< 0.003	6.90	1100	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	7.10	1250	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	< 0.005	< 0.005	< 0.003	< 0.003	6.90	1160	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.00	1110	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B402R)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B402R	Dec-05	-	-	**0.260**	0.001	7.73	3060	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	**1.20**	< 0.05	-	-
	Jun-06	-	-	0.003	< 0.003	8.37	2960	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	**0.048**	< 0.003	**8.61**	2680	**0.10**	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	-	-	**0.150**	0.010	8.11	1658	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	**0.042**	< 0.003	8.13	1470	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	-	-	**0.033**	< 0.003	7.33	273	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	**0.149**	< 0.003	8.27	1893	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	7.90	3000	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	**0.030**	< 0.003	8.20	2280	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	**0.028**	< 0.003	8.30	> 20000	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	**0.370**	< 0.003	8.40	3200	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	**0.034**	0.016	**0.235**	< 0.003	8.20	2800	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	0.015	0.014	< 0.050	< 0.050	7.90	2700	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-
	Aug-12	0.012	< 0.010	< 0.050	< 0.050	7.60	2400	-	-	-	-	-	-	-	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B403)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B403	Jun-98	-	-	**0.284**	< 0.002	7.21	1280	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	1999	-	-	**0.240**	0.010	7.36	710	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.17**	< 0.01	-	-
	Jun-00	-	-	0.010	0.004	7.35	402	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-00	-	-	0.007	0.003	8.41	520	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	0.002	0.002	8.12	970	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	0.004	0.003	7.54	415	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	-	-	< 0.001	< 0.001	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-02	-	-	0.005	< 0.001	7.11	456	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-02	-	-	0.003	-	7.52	201	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	0.002	< 0.001	7.97	200	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	0.002	< 0.001	8.03	536	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	0.002	< 0.001	7.61	351	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	0.004	0.001	8.41	235	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	-	-	0.003	0.002	7.44	296	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	0.001	0.002	7.65	681	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	0.001	< 0.001	7.23	662	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	< 0.001	< 0.001	7.52	613	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.82	1156	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	-	-	0.003	0.002	7.64	1135	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	0.002	0.001	7.18	1372	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	< 0.003	< 0.003	7.36	1479	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	< 0.003	< 0.003	7.85	1719	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	-	-	< 0.003	0.005	8.41	822	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	**8.61**	913	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	-	-	< 0.003	< 0.003	8.25	1121	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	7.81	771	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	7.40	1160	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Dec-09	-	-	< 0.003	< 0.003	7.20	1280	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	< 0.003	< 0.003	7.30	1020	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	**6.31**	1080	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	< 0.005	< 0.005	< 0.003	< 0.003	6.90	1060	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.00	960	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	-	-

Table 3
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Groundwater Performance Monitoring
Historical Laboratory Analytical Summary Table (Monitoring Well B404)

		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors								
								1016	1221	1232	1242	1248	1254	1260	1262	1268
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Class GA Standard		0.025	0.025	0.025	0.025	6.5-8.5	NA	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09
B404	Jun-98	-	-	0.007	0.003	**10.55**	2380	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	1999	-	-	< 0.010	< 0.010	6.72	1740	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	**0.17**	< 0.01	-	-
	Jun-00	-	-	0.004	0.002	6.97	1573	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-00	-	-	0.002	0.002	7.32	1114	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-00	-	-	0.003	< 0.001	7.47	589	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-01	-	-	0.003	0.003	7.54	610	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-02	-	-	< 0.001	< 0.001	-	-	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-02	-	-	0.003	< 0.001	7.09	731	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-02	-	-	0.003	-	7.33	374	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-03	-	-	< 0.001	< 0.001	7.61	272	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-03	-	-	0.002	< 0.001	7.63	544	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-03	-	-	0.001	< 0.001	7.26	526	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-03	-	-	0.004	0.002	**9.83**	297	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-04	-	-	0.001	0.002	8.14	286	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-04	-	-	0.001	< 0.001	**8.55**	516	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Sep-04	-	-	0.002	0.001	7.43	559	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-04	-	-	< 0.001	< 0.001	7.66	348	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Mar-05	-	-	< 0.001	< 0.001	7.28	512	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-05	-	-	0.003	< 0.001	7.56	367	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-05	-	-	< 0.001	< 0.001	7.14	512	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-06	-	-	< 0.003	< 0.003	7.46	523	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-06	-	-	< 0.003	< 0.003	6.89	474	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Jun-07	-	-	0.006	0.004	7.24	365	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-07	-	-	< 0.003	< 0.003	7.24	365	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-08	-	-	0.009	< 0.003	8.07	618	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	-	-
	Dec-08	-	-	< 0.003	< 0.003	7.08	539	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-09	-	-	< 0.003	< 0.003	6.90	600	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00	< 3.00
	Dec-09	-	-	< 0.003	< 0.003	7.30	610	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10	< 1.10
	Jun-10	-	-	< 0.003	< 0.003	6.90	350	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Dec-10	-	-	< 0.003	< 0.003	7.20	550	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	-	-
	Jun-11	< 0.005	< 0.005	< 0.003	< 0.003	6.80	840	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00
	Jun-12	< 0.010	< 0.010	< 0.050	< 0.050	7.20	830	-	-	-	< 0.05	< 0.05	< 0.05	< 0.05	-	-

Table 4
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Surface Water / Sediment Performance Monitoring
Historical Laboratory Analytical Summary Table (SW-002A)

Surface Water		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors							
								1016	1221	1232	1242	1248	1254	1260	Sum Total
Units		mg/L	mg/L	mg/L	mg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Part 703 Class D Surface Water Standard		0.025[1]	0.025[1]	0.025[1]	0.025[1]	6.0-9.5	-	0.00012[2]	0.00012[2]	0.00012[2]	0.00012[2]	0.00012[2]	0.00012[2]	0.00012[2]	0.00012
SW-002A	Jun-11	< 0.005	< 0.005	0.003	0.004	8.10	3400	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.0
	Jun-12	< 0.010	-	< 0.050	-	7.90	3700	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	0.0

Note: (1) = Conservative Class GA groundwater standard applied due to absence of hardness data
(2) = Standard refers to the sum of all Aroclors

Table 4
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Surface Water / Sediment Performance Monitoring
Historical Laboratory Analytical Summary Table (SW-002A)

Sediment		Total Arsenic	Total Lead	pH	Aroclors							
					1016	1221	1232	1242	1248	1254	1260	Sum Total
Units		ppm	ppm	s.u.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
6 NYCRR Part 375 Restricted Use Soil Cleanup Objectives (Industrial)		16	3900	-	25(1)	25(1)	25(1)	25(1)	25(1)	25(1)	25(1)	25
SW-002A Sediment	Jun-11	< 19.6	878	8.51	< 6.50	< 6.50	< 6.50	< 6.50	< 6.50	< 6.50	< 6.50	0.00
	Jun-12	7.0	364	7.72	-	-	-	< 0.050	0.082	0.065	< 0.050	0.15
	Jul-12	**17.9**	925	-	< 0.058	< 0.120	< 0.058	< 0.058	0.150	0.130	0.053 J	0.33

Note: (1) = Standard refers to the sum of all Aroclors

Table 4
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Surface Water / Sediment Performance Monitoring
Historical Laboratory Analytical Summary Table (SW-002B)

Surface Water		Total Arsenic	Dissolved Arsenic	Total Lead	Dissolved Lead	pH	Specific Conductivity	Aroclors							
								1016	1221	1232	1242	1248	1254	1260	Sum Total
Units		µg/L	µg/L	µg/L	µg/L	s.u.	us/cm	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
Part 703 Class D Surface Water Standard		0.025(1)	0.025(1)	0.025(1)	0.025(1)	6.0-9.5	-	0.00012(2)	0.00012(2)	0.00012(2)	0.00012(2)	0.00012(2)	0.00012(2)	0.00012(2)	0.00012
SW-002B	Jun-11	< 0.005	< 0.005	0.008	< 0.003	7.80	3100	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	< 1.00	0.0
	Jun-12	< 0.010	-	< 0.050	-	7.90	3600	-	-	-	< 0.047	< 0.047	< 0.047	< 0.047	0.0

Note: (1) = Conservative Class GA groundwater standard applied due to absence of hardness data
(2) = Standard refers to the sum of all Aroclors

Table 4
ROTH BROS. SMELTING CORP.
Corrective Action Management Unit (CAMU)
Surface Water / Sediment Performance Monitoring
Historical Laboratory Analytical Summary Table (SW-002B)

Sediment		Total Arsenic	Total Lead	pH	Aroclors							
					1016	1221	1232	1242	1248	1254	1260	Sum Total
Units		ppm	ppm	s.u.	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm
6 NYCRR Part 375 Restricted Use Soil Cleanup Objectives (Industrial)		16	3900	-	25(1)	25(1)	25(1)	25(1)	25(1)	25(1)	25(1)	25
SW-002B Sediment	Jun-11	< 18.4	415	8.59	< 6.10	< 6.10	< 6.10	< 6.10	< 6.10	< 6.10	< 6.10	0.000
	Jun-12	9.9	474	7.53	-	-	-	< 0.140	0.220	0.150	< 0.140	0.370
	Jul-12	6.6	285	-	< 0.062	< 0.130	< 0.062	< 0.062	0.120	0.091	0.044 J	0.255

Note: (1) = Standard refers to the sum of all Aroclors

Appendix A

Barton & Loguidice, P.C.

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**B-281 (MS/MSD)**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Overcast	Temperature:	70 F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	6.08
Measured Well Depth (feet)*:	13.03
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.11

*depth from measuring point

Measuring Point: Riser
Measured by: DMJ/MPS
Date: 06/18/12
Time: 8:45

PURGING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 3.33
Actual Volume of Water Purged (gallons): 3.50

Did well purge dry?	No	[X]	Yes	[ ]	
Did well recover?	No	[ ]	Yes	[X]	Recovery Time: _____

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: **DMJ/MPS** Time: **9:00** Date: **06/18/12**

SAMPLING DATA

Sample Appearance

Color: **Grey** Sediment: **Fines**
Odor: **None**

Field Measured Parameters

pH (Standard Units)	7.0	Sp. Conductivity (umhos/cm)	3700
Temperature (F)	58.3	Eh-Redox Potential (mV)	222
Turbidity (NTUs)	79.46	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Five bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ALS Time: _____ Date: 06/19/12

COMMENTS:

MS/MSD
Sample water turned cloudy - well went dry during bottle filling

Rev. 4/09 (MPS)

FOIL209336

Barton & Loguidice, P.C.

Engineers • Environmental Scientists • Planners • Landscape Architects

FIELD SAMPLING DATA SHEET

SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**B-290**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Overcast	Temperature:	70 F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	5.36
Measured Well Depth (feet)*:	10.26
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.78

*depth from measuring point

Measuring Point: Riser
Measured by: DMJ/MPS
Date: 06/18/12
Time: 9:40

PURGING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 2.34
Actual Volume of Water Purged (gallons): 2.00

Did well purge dry?	No [ ]	Yes [X]		
Did well recover?	No [ ]	Yes [X]	Recovery Time:	5 mins

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: **DMJ/MPS** Time: **9:50** Date: **06/18/12**

SAMPLING DATA

Sample Appearance

Color: **Hazy** Sediment: **None**
Odor: **None**

Field Measured Parameters

pH (Standard Units)	7.1	Sp. Conductivity (umhos/cm)	2900
Temperature (F)	63.9	Eh-Redox Potential (mV)	-51
Turbidity (NTUs)	28.89	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ALS Time: _____ Date: _____

COMMENTS:
Orange purge water

Rev. 4/09 (MPS)

FOIL209337

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FIELD SAMPLING DATA SHEET

SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**B-290**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Partly Cloudy	Temperature:	75 F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	5.56
Measured Well Depth (feet)*:	10.26
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.75

*depth from measuring point

Measuring Point: Riser
Measured by: MPS
Date: 08/08/12
Time: 13:45

PURGING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 1.5
Actual Volume of Water Purged (gallons): 2.00

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [ ] Recovery Time: Overnight

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: **MPS** Time: **8:50** Date: **08/09/12**

SAMPLING DATA

Sample Appearance

Color: **None** Sediment: **None**
Odor: **Clear**

Field Measured Parameters

pH (Standard Units)	6.9	Sp. Conductivity (umhos/cm)	3500
Temperature (F)	68.6	Eh-Redox Potential (mV)	23
Turbidity (NTUs)	14.76	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
T-Pb,As; D-Pb,As

Samples Delivered to: ALS courier Time: 15:56 Date: 08/09/12

COMMENTS:
Orange purge water

Rev. 4/09 (MPS)

FOIL209338

Barton & Loguidice, P.C.

FIELD SAMPLING DATA SHEET

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SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**B-291**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Overcast	Temperature:	70 F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	8.49
Measured Well Depth (feet)*:	12.54
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.65

*depth from measuring point

Measuring Point: Riser
Measured by: DMJ/MPS
Date: 06/18/12
Time: 10:25

PURGING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 1.95
Actual Volume of Water Purged (gallons): 2.00

Did well purge dry?	No	[X]	Yes	[ ]	
Did well recover?	No	[ ]	Yes	[X]	Recovery Time: _____

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: **DMJ/MPS** Time: **10:35** Date: **06/18/12**

SAMPLING DATA

Sample Appearance

Color: **Grey-brown** Sediment: **Fines**
Odor: **None**

Field Measured Parameters

pH (Standard Units)	7.0	Sp. Conductivity (umhos/cm)	900
Temperature (F)	55.2	Eh-Redox Potential (mV)	80
Turbidity (NTUs)	279.9	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: _____ Time: _____ Date: _____

COMMENTS:

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FOIL209339

Barton & Loguidice, P.C.

FIELD SAMPLING DATA SHEET

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SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**B-401**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Overcast	Temperature:	70 F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	8.43
Measured Well Depth (feet)*:	13.03
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.74

*depth from measuring point

Measuring Point: Riser
Measured by: DMJ/MPS
Date: 06/18/12
Time: 10:08

PURGING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 2.22
Actual Volume of Water Purged (gallons): 1.00

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [X] Recovery Time: 15 mins

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: **DMJ/MPS** Time: **10:20** Date: **06/18/12**

SAMPLING DATA

Sample Appearance

Color: **Clear** Sediment: **None**
Odor: **None**

Field Measured Parameters

pH (Standard Units)	7.0	Sp. Conductivity (umhos/cm)	1110
Temperature (F)	62.1	Eh-Redox Potential (mV)	-35
Turbidity (NTUs)	1.69	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: _____ Time: _____ Date: _____

COMMENTS:

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FOIL209340

Barton & Loguidice, P.C.

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FIELD SAMPLING DATA SHEET

SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**B-402R**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Partly Cloudy	Temperature:	75 F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	4.41
Measured Well Depth (feet)*:	12.24
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.81

*depth from measuring point

Measuring Point: Riser
Measured by: DMJ/MPS
Date: 06/18/12
Time: 11:25

PURGING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 2.43
Actual Volume of Water Purged (gallons): 2.50

Did well purge dry?	No	[X]	Yes	[ ]	
Did well recover?	No	[ ]	Yes	[X]	Recovery Time: 5 mins

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: **DMJ/MPS** Time: **11:37** Date: **06/18/12**

SAMPLING DATA

Sample Appearance

Color: **Yellow-grey** Sediment: **None**
Odor: **Septic**

Field Measured Parameters

pH (Standard Units)	7.9	Sp. Conductivity (umhos/cm)	2700
Temperature (F)	61.8	Eh-Redox Potential (mV)	-77
Turbidity (NTUs)	131.3	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: _____ Time: _____ Date: _____

COMMENTS:

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FIELD SAMPLING DATA SHEET

SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**B-402R**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Partly Cloudy	Temperature:	75 F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	5.94
Measured Well Depth (feet)*:	12.24
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1

*depth from measuring point

Measuring Point: Riser
Measured by: MPS
Date: 08/08/12
Time: 14:15

PURGING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 3
Actual Volume of Water Purged (gallons): 2.00

Did well purge dry? No [ ] Yes [X]
Did well recover? No [ ] Yes [ ] Recovery Time: Overnight

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: **MPS** Time: **9:15** Date: **08/09/12**

SAMPLING DATA

Sample Appearance

Color: **Slight Yellow Tint** Sediment: **None**
Odor: **None**

Field Measured Parameters

pH (Standard Units)	7.6	Sp. Conductivity (umhos/cm)	2400
Temperature (F)	65.9	Eh-Redox Potential (mV)	148
Turbidity (NTUs)	30.39	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
T-Pb,As; D-Pb,As

Samples Delivered to: ALS courier Time: 15:56 Date: 08/09/12

COMMENTS:

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Barton & Loguidice, P.C.

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FIELD SAMPLING DATA SHEET

SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**B-403**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Partly Cloudy	Temperature:	75 F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	4.10
Measured Well Depth (feet)*:	11.26
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.15

*depth from measuring point

Measuring Point: Riser
Measured by: DMJ/MPS
Date: 06/18/12
Time: 13:05

PURGING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 3.45
Actual Volume of Water Purged (gallons): 2.00

Did well purge dry?	No [ ]	Yes [X]		
Did well recover?	No [ ]	Yes [X]	Recovery Time:	10 mins

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: **DMJ/MPS** Time: **13:23** Date: **06/18/12**

SAMPLING DATA

Sample Appearance

Color: **Clear** Sediment: **None**
Odor: **None**

Field Measured Parameters

pH (Standard Units)	7.0	Sp. Conductivity (umhos/cm)	960
Temperature (F)	64.5	Eh-Redox Potential (mV)	-71
Turbidity (NTUs)	4.08	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ULI Time: _____ Date: _____

COMMENTS:

Needed to cut lock

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FIELD SAMPLING DATA SHEET

SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**B-404**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Overcast	Temperature:	70 F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	6.44
Measured Well Depth (feet)*:	16.14
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.55

*depth from measuring point

Measuring Point: Riser
Measured by: DMJ/MPS
Date: 06/18/12
Time: 10:45

PURGING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 4.65
Actual Volume of Water Purged (gallons): 4.75

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [X] Recovery Time: _____

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: **DMJ/MPS** Time: **10:55** Date: **06/18/12**

SAMPLING DATA

Sample Appearance

Color: **Clear** Sediment: **None**
Odor: **None**

Field Measured Parameters

pH (Standard Units)	7.2	Sp. Conductivity (umhos/cm)	830
Temperature (F)	61.8	Eh-Redox Potential (mV)	-88
Turbidity (NTUs)	7.10	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: ULI Time: _____ Date: _____

COMMENTS:

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FOIL209344

Barton & Loguidice, P.C.

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FIELD SAMPLING DATA SHEET

SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**MW-8R / Dupe**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Partly Cloudy	Temperature:	75 F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): _____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	2.84
Measured Well Depth (feet)*:	10.00
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	1.15

*depth from measuring point

Measuring Point: Riser
Measured by: DMJ/MPS
Date: 06/18/12
Time: 13:37

PURGING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 3.45
Actual Volume of Water Purged (gallons): 3.50

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [ ] Recovery Time: _____

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: **DMJ/MPS** Time: **14:00** Date: **06/18/12**

SAMPLING DATA

Sample Appearance

Color: **Clear** Sediment: **Fines**
Odor: **Chemical**

Field Measured Parameters

pH (Standard Units)	6.9	Sp. Conductivity (umhos/cm)	15300
Temperature (F)	63.2	Eh-Redox Potential (mV)	-104
Turbidity (NTUs)	15.11	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
Four bottles - T-Pb,As; D-Pb,As; PCBs (2)

Samples Delivered to: _____ Time: _____ Date: _____

COMMENTS:

Black fines and small gravel in well bottom.

Rev. 4/09 (MPS)

FOIL209345

Barton & Loguidice, P.C.

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FIELD SAMPLING DATA SHEET

SITE:	**Metalico - Thompson Road**	**SAMPLE LOCATION:**	**MW-8R**
CLIENT:	**Metalico Aluminum Recovery, Inc.**	**JOB #:**	**1206.002.007**
Weather Conditions:	Overcast	Temperature:	75 F

SAMPLE TYPE: Groundwater [X] Surface Water [ ] Other (specify): ____
Sediment [ ] Leachate [ ]

WATER LEVEL DATA

Static Water Level (feet)*:	4.08
Measured Well Depth (feet)*:	10.00
Well Casing Diameter (inches):	2
Calculated Volume in Well Casing (gallons):	0.95

*depth from measuring point

Measuring Point: Riser
Measured by: MPS
Date: 08/08/12
Time: 14:45

PURGING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Calculated Volume Of Water To Be Purged (gallons): 2.85
Actual Volume of Water Purged (gallons): 3.00

Did well purge dry? No [X] Yes [ ]
Did well recover? No [ ] Yes [ ] Recovery Time: Overnight

SAMPLING METHOD

Equipment:

Bailer	[ ]	Submersible Pump	[ ]	Air Lift System	[ ]
Non-dedicated	[X]	Foot Valve	[ ]	Peristaltic Pump	[X]
Dedicated	[ ]	Bladder Pump	[ ]		

Sampled by: **MPS** Time: **9:45** Date: **08/09/12**

SAMPLING DATA

Sample Appearance

Color: **Clear** Sediment: **None**
Odor: **Strong Chemical**

Field Measured Parameters

pH (Standard Units)	6.9	Sp. Conductivity (umhos/cm)	12500
Temperature (F)	71.3	Eh-Redox Potential (mV)	-103
Turbidity (NTUs)	14.18	Dissolved Oxygen (mg/L)	-

Samples Collected (Number/Type):
T-Pb,As; D-Pb,As

Samples Delivered to: ALS courier Time: 15:56 Date: 08/09/12

COMMENTS:

Sheen on purge water

Rev. 4/09 (MPS)

Columbia Analytical Services — CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1565 Jefferson Rd., Bldg. 300, Suite 360, Rochester, NY 14623 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 1 OF 2

Project Name: Metalico - CAMU
Project Number: 1206.002.005
Project Manager: John Benson
Report CC: Matt Strodel
Company/Address: Barton + Loguidice PC, 290 Elwood Davis RD, Liverpool NY 13088
Phone #: 315-457-5200
E-mail: JBenson@bartonandloguidice.com
Sampler's Signature: [signature]
Sampler's Printed Name: Matt Strodel / Derek M. Jord

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE: 0, 2, 2

Preservative Key: 0. NONE 1. HCL 2. HNO_3 3. H_2SO_4 4. NaOH 5. Zn. Acetate 6. MeOH 7. $NaHSO_4$ 8. Other ______

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's □8260 □624 □CLP	GC/MS SVOA's □8270 □625	GC VOA's □8021 □601/602	PESTICIDES □8081 □608	PCB's □8082 □608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	REMARKS/ ALTERNATE DESCRIPTION
B-281		06/18/12	09:00	GW	5					X	X	X	MS/MSD
B-290		↓	09:50		4					X	X	X	
B-404			10:55		4					X	X	X	
B-291			10:35		4					X	X	X	
B-402R			11:37		4					X	X	X	
B-401			10:20		4					X	X	X	
B-403			13:33		4					X	X	X	
MW-8R			14:00		4					X	X	X	
Duplicate			—	↓	4					X	X	X	
Equipment Blank		↓	10:18	Water	4					X	X	X	

SPECIAL INSTRUCTIONS/COMMENTS
Metals
Total - As, Pb
Dissolved - As, Pb

See QAPP □

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
____ Standard
REQUESTED REPORT DATE ________

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data
Edata ____ Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

R1203891 5
Barton & Loguidice, PC
Metalico CAMU

STATE WHERE SAMPLES WERE COLLECTED:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	
Signature: [signature]	Signature: [signature]	Signature	Signature	Signature	Signature
Printed Name: Derek M. Jordan	Printed Name: Daniel Ward	Printed Name	Printed Name	Printed Name	Printed Name
Firm: B+L	Firm: ALS	Firm	Firm	Firm	Firm
Date/Time: 6/19/12 13:25	Date/Time: 6/19/12 / 1325	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev. 7/2011

0553

Columbia Analytical Services™ CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

1565 Jefferson Rd., Bldg. 300, Suite 360, Rochester, NY 14623 | 585.288.5380 | 800.695.7222 | 585.288.8475 (fax) PAGE 2 OF 2

Project Name: Metalico - CAMC	Project Number: 1206.003.005
Project Manager: John Banson	Report CC: Matt Stradel
Company/Address: Barton + Loguidice PC 290 Elwood Davis Rd Liverpool NY 13088	
Phone #: 315-457-5200	E-mail: JBanson@bartonandloguidice.com
Sampler's Signature:	Sampler's Printed Name: MATT STRADEL / Derek Nelson

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOA's ☐ 8260 ☐ 624 ☐ CLP	GC/MS SVOA's ☐ 8270 ☐ 625	GC VOA's ☐ 8021 ☐ 601/602	PESTICIDES ☐ 8081 ☐ 608	PCB's ☐ 8082 ☐ 608	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)	pH, % moisture	REMARKS/ ALTERNATE DESCRIPTION
SW-002A		04/18/12	11:15	GW	3					X	X			
SW-002A		↓	11:15	Soil	1					X	X		X	
SW-002B			11:05	GW	3					V	V			
SW-002B		✓	11:05	Soil	1					X	V		X	
B-29/B-286		04/18/12	1525	GW	3					X	X	V		

Preservative Key
0. NONE
1. HCl
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

SPECIAL INSTRUCTIONS/COMMENTS
Metals

Total - As, Pb

Dissolved - As, Pb

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED:

TURNAROUND REQUIREMENTS
____ RUSH (SURCHARGES APPLY)
____ 1 day ____ 2 day ____ 3 day
____ 4 day ____ 5 day
____ Standard

REQUESTED REPORT DATE
_____

REPORT REQUIREMENTS
____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata ____ Yes ____ No

INVOICE INFORMATION
PO #:
BILL TO:

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY
Signature	Signature	Signature	Signature	Signature	Signature
Printed Name	Printed Name: ALS	Printed Name	Printed Name	Printed Name	Printed Name
Firm: T&L	Firm	Firm	Firm	Firm	Firm
Date/Time: 6/19/12 13:25	Date/Time: 6/19/12 / ~~1325~~ 1525	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return To Originator

SCOC Rev. 7/2011

Cooler Receipt and Preservation Check Form

Project/Client Baxter + Lazydales Folder Number R12-3891

Cooler received on 6/19/12 by: RD COURIER: ALS UPS FEDEX VELOCITY (CLIENT)

1.	Were custody seals on outside of cooler?			YES	(NO)	
2.	Were custody papers properly filled out (ink, signed, etc.)?			(YES)	NO	
3.	Did all bottles arrive in good condition (unbroken)?			(YES)	NO	
4.	Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles?			YES	NO	(N/A)
5.	Were Ice or Ice packs present?			(YES)	NO	
6.	Where did the bottles originate?			ALS/ROC, CLIENT		
7.	Temperature of cooler(s) upon receipt:	2.1°	1.0°	2.5°		
	Is the temperature within 0° - 6° C?:	(Yes)	(Yes)	(Yes)	Yes	Yes
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 6/19/12 1535 1330

Thermometer ID: (IR GUN#3) / IR GUN#4 Reading From: (Temp Blank) / Sample Bottle

If out of Temperature, note packing/ice condition &Client Approval to Run Samples:

All Samples held in storage location R-002 by RD on 6/19/12 at 1545 1345

5035 samples placed in storage location _____ by _____ on _____ at _____

PC Secondary Review: [signature]

Cooler Breakdown: Date: 6/19/12 Time: 1445 by: RD

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3	✓		BB26119I	3/13				
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For TCN Phenol and 522			If present, contact PM to add ascorbic acid Or sodium sulfite (522)					
	$Na_2S_2O_3$	-	-						
	Zn Aceta	-	-						
	HCl	*	*						

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: 040312-2Q, 040312-1R

Other Comments:

PC Secondary Review: [signature]

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

H:\SMODOCS\Cooler Receipt 5.doc

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 2752

ALS Environmental

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE _____ OF _____

Project Name: Metalico	Project Number: 1206.002.007
Project Manager: John Benson	Report CC:
Company/Address: Barton + Loguidice	
Phone #: 315-457-5200	Email:
Sampler's Signature:	Sampler's Printed Name: John Benson

ANALYSIS REQUESTED (Include Method Number and Container Preservative)

PRESERVATIVE

NUMBER OF CONTAINERS

GC/MS VOAs ◦ 8260 ◦ 624 ◦ CLP | GC/MS SVOAs ◦ 8270 ◦ 625 | GC VOAs ◦ 8021 ◦ 601/602 | PESTICIDES ◦ 8081 ◦ 608 | PCBs ◦ 8082 ◦ 608 | METALS, TOTAL Pb + As | METALS, DISSOLVED (List in comments below) | (List in comments below)

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	GC/MS VOAs	GC/MS SVOAs	GC VOAs	PESTICIDES	PCBs	METALS, TOTAL Pb + As	METALS, DISSOLVED		REMARKS/ ALTERNATE DESCRIPTION
SW-002B		7/31/12	1300	Sed	1					X	X			*T-Lead + Arsenic
SW-002A		7/31/12	1315	Sed	1					X	X			
														Low level PCB's
														20.5 ug/L
														mg/kg

SPECIAL INSTRUCTIONS/COMMENTS
Metals

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day

REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
_____ I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with

Edata _____ Yes _____

INVOICE INFORMATION
PO #
BILL TO:

R1204955 5
Barton & Loguidice, PC
Metalico Site

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	
Signature	Signature Daniel Wand	Signature	Signature	Signature	Signature
Printed Name: John Benson	Printed Name ALS	Printed Name	Printed Name	Printed Name	Printed Name
Firm B+L	Firm 8/1/12/1330	Firm	Firm	Firm	Firm
Date/Time 8/1/12 10:00am	Date/Time	Date/Time	Date/Time	Date/Time	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

FOIL209350

Cooler Receipt and Preservation Check Form

Project/Client B+L Folder Number R12-4955

Cooler received on 8/1/12 by: SW COURIER: (ALS) UPS FEDEX VELOCITY CLIENT

1.	Were custody seals on outside of cooler?	(YES)	NO			
2.	Were custody papers properly filled out (ink, signed, etc.)?	(YES)	NO			
3.	Did all bottles arrive in good condition (unbroken)?	(YES)	NO			
4.	Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles?	YES	NO	(N/A)		
5.	Were Ice or Ice packs present?	(YES)	NO			
6.	Where did the bottles originate?		ALS/ROC, CLIENT			
7.	Temperature of cooler(s) upon receipt:	2.1°				
	Is the temperature within 0° - 6° C?:	(Yes)	Yes	Yes	Yes	Yes
	If No, Explain Below	No	No	No	No	No

Date/Time Temperatures Taken: 8/1/12 / 1334

Thermometer ID: IR GUN#3 / ~~IR GUN#4~~ Reading From: ~~Temp Blank~~ / Sample Bottle

If out of Temperature, note packing/ice condition &Client Approval to Run Samples:

All Samples held in storage location R-002 by SW on 8/1/12 at 1334
5035 samples placed in storage location _____ by _____ on _____ at _____

PC Secondary Review: [signature]

Cooler Breakdown: Date: 8/1/12 Time: 1540 by: (A)

1.	Were all bottle labels complete (*i.e.* analysis, preservation, etc.)?	(YES)	NO
2.	Did all bottle labels and tags agree with custody papers?	(YES)	NO
3.	Were correct containers used for the tests indicated?	(YES)	NO
4.	Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated		(N/A)

Explain any discrepancies: _____

pH	Reagent	YES	NO	Lot Received *^	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3								
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For TCN Phenol and 522			If present, contact PM to add ascorbic acid Or sodium sulfite (522)					
	$Na_2S_2O_3$	-	-						
	Zn Aceta	-	-						
	HCl	*	*						

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: _____

Bottle lot numbers: BDB26121F,
Other Comments:

PC Secondary Review: [signature]

*significant air bubbles: VOA > 5-6 mm : WC ~1 in. diameter

H:\SMODOCS\Cooler Receipt 5.doc

ALS Environmental

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM 2753

1565 Jefferson Road, Building 300, Suite 360 • Rochester, NY 14623 | +1 585 288 5380 +1 585 288 8475 (fax) PAGE 1 OF 1

Project Name: Metalico Monitoring Wells	Project Number: 1206.001
Project Manager: John Benson	Report CC: Matt Strodel
Company/Address: 290 Elwood Davis Rd Box 3107 Syracuse, NY 13220	
Phone #: 315-457-5200	Email: MStrodel@Bartonandloguidice.com
Sampler's Signature:	Sampler's Printed Name: MATT STRODEL

ANALYSIS REQUESTED *(Include Method Number and Container Preservative)*

PRESERVATIVE: 0 2 2

CLIENT SAMPLE ID	FOR OFFICE USE ONLY LAB ID	SAMPLING DATE	SAMPLING TIME	MATRIX	NUMBER OF CONTAINERS	METALS, TOTAL (List in comments below)	METALS, DISSOLVED (List in comments below)
MW-8R		08/09/12	09:45	Water	4	X	X
B-290			08:50		4	X	X
B-402R			09:15		4	X	X

Preservative Key
0. NONE
1. HCL
2. HNO_3
3. H_2SO_4
4. NaOH
5. Zn. Acetate
6. MeOH
7. $NaHSO_4$
8. Other _____

REMARKS/ ALTERNATE DESCRIPTION

SPECIAL INSTRUCTIONS/COMMENTS
Metals Total + Dissolved - As, Pb
Dissolved metals were field filtered

See QAPP ☐

STATE WHERE SAMPLES WERE COLLECTED NY

TURNAROUND REQUIREMENTS
_____ RUSH (SURCHARGES APPLY)
_____ 1 day _____ 2 day _____ 3 day
_____ 4 day _____ 5 day
REQUESTED REPORT DATE _____

REPORT REQUIREMENTS
X I. Results Only
_____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
_____ III. Results + QC and Calibration Summaries
_____ IV. Data Validation Report with Raw Data
Edata _____ Yes X

INVOICE INFORMATION
PO # 1206.001
BILL TO: B+C

R1205209 5
Barton & Loguidice, PC
Metalico Monitoring Wells

RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY	RECEIVED BY	RELINQUISHED BY
Signature: Matthew Strodel	Signature: F Meyer	Signature: F Meyer	Signature:	Signature
Printed Name: B+C	Printed Name: FORREST MEYER	Printed Name: FORREST MEYER	Printed Name: Gregory O. Esmerian	Printed Name
Firm: 08/09/12 11:10	Firm: 08/09/12 1556	Firm: ALS	Firm: ALS	Firm
Date/Time	Date/Time	Date/Time: 08/09/12 1700	Date/Time: 8-9-12 15:56	Date/Time

Distribution: White - Lab Copy; Yellow - Return to Originator

Cooler Receipt and Preservation Check Form

Project/Client Barton + Loguidice Folder Number R12-5209.

Cooler received on 8-9-12 by: ME COURIER: (ALS) UPS FEDEX VELOCITY CLIENT

1. Were custody seals on outside of cooler? (YES) NO
2. Were custody papers properly filled out (ink, signed, etc.)? (YES) NO
3. Did all bottles arrive in good condition (unbroken)? (YES) NO
4. Did VOA vials, Alkalinity, or Sulfide have significant* air bubbles? YES NO (N/A)
5. Were (Ice) or Ice packs present? (YES) NO
6. Where did the bottles originate? (ALS/ROC) CLIENT
7. Temperature of cooler(s) upon receipt: 5.2°

Is the temperature within 0° - 6° C?: (Yes) Yes Yes Yes Yes

If No, Explain Below No No No No No

Date/Time Temperatures Taken: 8-9-12 @ 16:15

Thermometer ID: IR GUN#3 / (IR GUN#4) Reading From: (Temp Blank) / Sample Bottle

If out of Temperature, note packing/ice condition &Client Approval to Run Samples:

All Samples held in storage location R-002 by ME on 8-9-12 at 16:20

5035 samples placed in storage location ______ by ______ on ______ at ______

PC Secondary Review: [signature]

Cooler Breakdown: Date: 8/9/12 Time: 1815 by: [initials]

1. Were all bottle labels complete (*i.e.* analysis, preservation, etc.)? (YES) NO
2. Did all bottle labels and tags agree with custody papers? (YES) NO
3. Were correct containers used for the tests indicated? (YES) NO
4. Air Samples: Cassettes / Tubes Intact Canisters Pressurized Tedlar® Bags Inflated (N/A)

Explain any discrepancies: ______

pH	Reagent	YES	NO	Lot Received	Exp	Sample ID	Vol. Added	Lot Added	Final pH
≥12	NaOH								
≤2	HNO_3	✓		BDB26/211	6/13				
≤2	H_2SO_4								
<4	$NaHSO_4$								
Residual Chlorine (-)	For TCN Phenol and 522			If present, contact PM to add ascorbic acid Or sodium sulfite (522)					
	$Na_2S_2O_3$	-	-						
	Zn Aceta	-	-						
	HCl	*	*						

*Not to be tested before analysis – pH tested and recorded by VOAs or GenChem on a separate worksheet

Yes = All samples OK

No = Samples were preserved at lab as listed

PM OK to Adjust: ______

Bottle lot numbers: 042312-2Q, 061112-1X

Other Comments:

PC Secondary Review: [signature]

H:\SMODOCS\Cooler Receipt 5.doc

*significant air bubbles: VOA > 5-6 mm ; WC > 1 in. diameter

Appendix B

July 05, 2012 Service Request No: R1203891

Mr. John Benson
Barton & Loguidice, PC
290 Elwood Davis Drive
P.O. Box 3107
Syracuse, NY 13220

Laboratory Results for: Metalico CAMU/1206.002.005

Dear Mr. Benson:

Enclosed are the results of the sample(s) submitted to our laboratory on June 19, 2012. For your reference, these analyses have been assigned our service request number **R1203891**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7473. You may also contact me via email at DPatton@caslab.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Deb Patton
Project Manager

Columbia Analytical Services

ADDRESS 1565 Jefferson Rd, Building 300, Suite 360, Rochester, NY 14623
PHONE 585-288-5380 | FAX 585-288-8475
Columbia Analytical Services, Inc.
Part of the ALS Group A Campbell Brothers Limited Company
www.caslab.com • www.alsglobal.com

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1203891

Lab ID	Client ID
R1203891-001	B-281
R1203891-002	B-281 Dissolved
R1203891-003	B-290
R1203891-004	B-290 Dissolved
R1203891-005	B-404
R1203891-006	B-404 Dissolved
R1203891-007	B-291
R1203891-008	B-291 Dissolved
R1203891-009	B-402R
R1203891-010	B-402R Dissolved
R1203891-011	B-401
R1203891-012	B-401 Dissolved
R1203891-013	B-403
R1203891-014	B-403 Dissolved
R1203891-015	MW-8R
R1203891-016	MW-8R Dissolved
R1203891-017	DUPLICATE
R1203891-018	DUPLICATE Dissolved
R1203891-019	EQUIPMENT BLANK
R1203891-020	EQUIPMENT BLANK Dissolved
R1203891-021	SW-002A
R1203891-022	SW-002A
R1203891-023	SW-002B
R1203891-024	SW-002B
R1203891-025	B-286
R1203891-026	B-286 Dissolved

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by CAS personnel have been in accordance with "CAS Field Procedures and Measurements Manual" or by client specifications.

Columbia Analytical Services

Now part of the ALS Group

REPORT QUALIFIERS

U	Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
J	Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
B	Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
E	Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
E	Organics- Concentration has exceeded the calibration range for that specific analysis.
D	Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
*	Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
H	Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
#	Spike was diluted out.
+	Correlation coefficient for MSA is <0.995.
N	Inorganics- Matrix spike recovery was outside laboratory limits.
N	Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
S	Concentration has been determined using Method of Standard Additions (MSA).
W	Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
P	Concentration >40% (25% for CLP) difference between the two GC columns.
C	Confirmed by GC/MS
Q	DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
X	See Case Narrative for discussion.

ACCREDITED IN ACCORDANCE WITH nelac

CAS/Rochester Lab ID # for State Certifications[1]

NELAP Accredited	Nevada ID # NY-00032
Connecticut ID # PH0556	New Jersey ID # NY004
Delaware Accredited	New York ID # 10145
DoD ELAP #65817	New Hampshire ID # 294100 A/B
Florida ID # E87674	North Carolina #676
Illinois ID #200047	Pennsylvania ID# 68-786
Maine ID #NY0032	Rhode Island ID # 158
Nebraska Accredited	Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 0900
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-281		
Lab Code:	R1203891-001	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	6/20/12	6/29/12 21:03	
Lead, Total	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 10:22	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 0900
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-281 Dissolved		
Lab Code:	R1203891-002	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	6/21/12	7/2/12 09:53	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/21/12	7/2/12 09:53	

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
Analytical Report

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 0900
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Extracted:	6/20/12
		Date Analyzed:	6/21/12 18:07
Sample Name:	B-281	**Units:**	µg/L
Lab Code:	R1203891-001	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062112\AR517.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	75	14-138	6/21/12 18:07	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 0950
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-290		
Lab Code:	R1203891-003	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	**36**		µg/L	10	1	6/20/12	6/29/12 21:39	
Lead, Total	6010C	**305**		µg/L	50	1	6/20/12	7/3/12 10:54	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 0950
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-290 Dissolved		
Lab Code:	R1203891-004	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	6/20/12	6/29/12 21:46	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 11:01	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 0950
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Extracted:	6/20/12
		Date Analyzed:	6/21/12 19:49
Sample Name:	B-290	**Units:**	µg/L
Lab Code:	R1203891-003	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062112\AR520.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	73	14-138	6/21/12 19:49	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1055
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-404		
Lab Code:	R1203891-005	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	6/20/12	6/29/12 21:54	
Lead, Total	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 11:08	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1055
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-404 Dissolved		
Lab Code:	R1203891-006	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	6/20/12	6/29/12 22:12	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 11:24	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1055
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Extracted:	6/20/12
		Date Analyzed:	6/21/12 21:31
Sample Name:	B-404	**Units:**	µg/L
Lab Code:	R1203891-005	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062112\AR523.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	76	14-138	6/21/12 21:31	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1035
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-291		
Lab Code:	R1203891-007	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	6/20/12	6/29/12 22:19	
Lead, Total	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 11:30	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1035
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-291 Dissolved		
Lab Code:	R1203891-008	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	6/20/12	6/29/12 22:25	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 11:36	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1035
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Extracted:	6/20/12
		Date Analyzed:	6/21/12 22:05
Sample Name:	B-291	**Units:**	µg/L
Lab Code:	R1203891-007	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062112\AR524.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	79	14-138	6/21/12 22:05	

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Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1137
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-402R		
Lab Code:	R1203891-009	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	15		µg/L	10	1	6/20/12	6/29/12 22:31	
Lead, Total	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 11:41	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1137
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-402R Dissolved		
Lab Code:	R1203891-010	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	14		µg/L	10	1	6/20/12	6/29/12 22:39	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 11:47	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1137
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Extracted:	6/20/12
		Date Analyzed:	6/21/12 22:39
Sample Name:	B-402R	**Units:**	µg/L
Lab Code:	R1203891-009	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062112\AR525.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	73	14-138	6/21/12 22:39	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1020
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-401		
Lab Code:	R1203891-011	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	6/20/12	6/29/12 22:46	
Lead, Total	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 11:53	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1020
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-401 Dissolved		
Lab Code:	R1203891-012	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	6/20/12	6/29/12 22:54	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 11:59	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1020
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Extracted:	6/20/12
		Date Analyzed:	6/21/12 23:13
Sample Name:	B-401	**Units:**	µg/L
Lab Code:	R1203891-011	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062112\AR526.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	76	14-138	6/21/12 23:13	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1323
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-403		
Lab Code:	R1203891-013	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	6/20/12	6/29/12 23:01	
Lead, Total	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 12:05	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1323
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-403 Dissolved		
Lab Code:	R1203891-014	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	6/20/12	6/29/12 23:08	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 12:11	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1323
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Extracted:	6/20/12
		Date Analyzed:	6/21/12 23:47
Sample Name:	B-403	**Units:**	µg/L
Lab Code:	R1203891-013	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062112\AR527.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	77	14-138	6/21/12 23:47	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1400
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	MW-8R		
Lab Code:	R1203891-015	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	16		µg/L	10	1	6/20/12	6/29/12 23:14	
Lead, Total	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 12:16	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1400
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	MW-8R Dissolved		
Lab Code:	R1203891-016	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	**12**		µg/L	10	1	6/20/12	6/29/12 23:34	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 12:33	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1400
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Extracted:	6/20/12
		Date Analyzed:	6/22/12 09:32
Sample Name:	MW-8R	**Units:**	µg/L
Lab Code:	R1203891-015	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062112\AR543.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	10

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.47	U	0.47	
12672-29-6	Aroclor 1248	0.47	U	0.47	
11097-69-1	Aroclor 1254	15		0.47	
11096-82-5	Aroclor 1260	0.47	U	0.47	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	74	14-138	6/22/12 09:32	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	DUPLICATE		
Lab Code:	R1203891-017	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	15		µg/L	10	1	6/20/12	6/29/12 23:42	
Lead, Total	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 12:40	

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Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	DUPLICATE Dissolved		
Lab Code:	R1203891-018	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	**11**		µg/L	10	1	6/20/12	6/29/12 23:50	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 12:47	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Extracted:	6/20/12
		Date Analyzed:	6/22/12 10:06
Sample Name:	DUPLICATE	**Units:**	µg/L
Lab Code:	R1203891-017	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062112\AR544.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	5

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.24	U	0.24	
12672-29-6	Aroclor 1248	0.24	U	0.24	
11097-69-1	Aroclor 1254	5.9		0.24	
11096-82-5	Aroclor 1260	0.24	U	0.24	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	71	14-138	6/22/12 10:06	

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Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1018
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	EQUIPMENT BLANK		
Lab Code:	R1203891-019	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	6/20/12	6/29/12 23:57	
Lead, Total	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 12:54	

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Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1018
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	EQUIPMENT BLANK Dissolved		
Lab Code:	R1203891-020	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	6/20/12	6/30/12 00:04	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 13:00	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1018
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Extracted:	6/20/12
		Date Analyzed:	6/25/12 11:49
Sample Name:	EQUIPMENT BLANK	**Units:**	µg/L
Lab Code:	R1203891-019	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062512\AR555.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	72	14-138	6/25/12 11:49	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1115
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	SW-002A		
Lab Code:	R1203891-021	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	6/20/12	6/30/12 00:10	
Lead, Total	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 13:06	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1115
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Extracted:	6/20/12
		Date Analyzed:	6/22/12 02:03
Sample Name:	SW-002A	**Units:**	µg/L
Lab Code:	R1203891-021	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062112\AR531.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	75	14-138	6/22/12 02:03	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1115
Sample Matrix:	Soil	**Date Received:**	6/19/12
Sample Name:	SW-002A		
Lab Code:	R1203891-022	**Basis:**	As Received

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
pH	9045D	7.72		pH Units		1	NA	6/22/12 14:41	
Solids, Total	160.3 Modified	65.7		Percent	1.0	1	NA	6/26/12 19:39	

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Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1115
Sample Matrix:	Soil	**Date Received:**	6/19/12
Sample Name:	SW-002A		
Lab Code:	R1203891-022	**Basis:**	Dry
		Percent Solids:	65.7

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	**7.0**		mg/Kg	1.4	1	6/21/12	6/22/12 16:04	
Lead, Total	6010C	**364**		mg/Kg	7.2	1	6/21/12	6/22/12 16:04	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1115
Sample Matrix:	Soil	**Date Received:**	6/19/12
		Date Extracted:	6/21/12
		Date Analyzed:	6/22/12 09:12
Sample Name:	SW-002A	**Units:**	µg/Kg
Lab Code:	R1203891-022	**Basis:**	Dry
		Percent Solids:	65.7

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297355
Prep Method:	EPA 3541	**Extraction Lot:**	160930
Data File Name:	J:\ACQUDATA\GCEXT4\DATA\062212\NI288.D\	**Instrument Name:**	R-GC-56
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	50	U	50	
12672-29-6	Aroclor 1248	82		50	
11097-69-1	Aroclor 1254	65		50	
11096-82-5	Aroclor 1260	50	U	50	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	34	32-141	6/22/12 09:12	
Tetrachloro-m-xylene	43	12-136	6/22/12 09:12	

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Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1105
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	SW-002B		
Lab Code:	R1203891-023	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	6/21/12	7/2/12 10:23	
Lead, Total	6010C	50	U	µg/L	50	1	6/21/12	7/2/12 10:23	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1105
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Extracted:	6/20/12
		Date Analyzed:	6/22/12 02:37
Sample Name:	SW-002B	**Units:**	µg/L
Lab Code:	R1203891-023	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062112\AR532.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	67	14-138	6/22/12 02:37	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1105
Sample Matrix:	Soil	**Date Received:**	6/19/12
Sample Name:	SW-002B		
Lab Code:	R1203891-024	**Basis:**	As Received

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
pH	9045D	7.53		pH Units		1	NA	6/22/12 14:41	
Solids, Total	160.3 Modified	46.3		Percent	1.0	1	NA	6/26/12 19:39	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1105
Sample Matrix:	Soil	**Date Received:**	6/19/12
Sample Name:	SW-002B		
Lab Code:	R1203891-024	**Basis:**	Dry
		Percent Solids:	46.3

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	9.9		mg/Kg	2.1	1	6/21/12	6/22/12 16:10	
Lead, Total	6010C	474		mg/Kg	10	1	6/21/12	6/22/12 16:10	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1105
Sample Matrix:	Soil	**Date Received:**	6/19/12
		Date Extracted:	6/21/12
		Date Analyzed:	6/22/12 12:40
Sample Name:	SW-002B	**Units:**	µg/Kg
Lab Code:	R1203891-024	**Basis:**	Dry
		Percent Solids:	46.3

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297355
Prep Method:	EPA 3541	**Extraction Lot:**	160930
Data File Name:	J:\ACQUDATA\GCEXT4\DATA\062212\NI294.D\	**Instrument Name:**	R-GC-56
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	140	U	140	
12672-29-6	Aroclor 1248	**220**		140	
11097-69-1	Aroclor 1254	**150**		140	
11096-82-5	Aroclor 1260	140	U	140	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	79	32-141	6/22/12 12:40	
Tetrachloro-m-xylene	66	12-136	6/22/12 12:40	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1505
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-286		
Lab Code:	R1203891-025	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10	U	µg/L	10	1	6/21/12	7/2/12 10:29	
Lead, Total	6010C	50	U	µg/L	50	1	6/21/12	7/2/12 10:29	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1505
Sample Matrix:	Water	**Date Received:**	6/19/12
Sample Name:	B-286 Dissolved		
Lab Code:	R1203891-026	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	6/21/12	7/2/12 10:35	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/21/12	7/2/12 10:35	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12 1505
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Extracted:	6/20/12
		Date Analyzed:	6/22/12 07:09
Sample Name:	B-286	**Units:**	µg/L
Lab Code:	R1203891-025	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062112\AR540.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	0.047	U	0.047	
11096-82-5	Aroclor 1260	0.047	U	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	66	14-138	6/22/12 07:09	

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Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1203891-MB	**Basis:**	As Received

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Solids, Total	160.3 Modified	1.0	U	Percent	1.0	1	NA	6/26/12 19:39	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1203891-MB1	**Basis:**	Dry

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	1.0	U	mg/Kg	1.0	1	6/21/12	6/22/12 15:28	
Lead, Total	6010C	5.0	U	mg/Kg	5.0	1	6/21/12	6/22/12 15:28	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1203891-MB2	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	6/20/12	6/29/12 20:49	
Arsenic, Total	6010C	10	U	µg/L	10	1	6/20/12	6/29/12 20:49	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/21/12	7/2/12 09:41	
Lead, Total	6010C	50	U	µg/L	50	1	6/21/12	7/2/12 09:41	

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Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1203891-MB3	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	6/21/12	7/2/12 09:41	
Arsenic, Total	6010C	10	U	µg/L	10	1	6/21/12	7/2/12 09:41	
Lead, Dissolved	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 10:12	
Lead, Total	6010C	50	U	µg/L	50	1	6/20/12	7/3/12 10:12	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	6/20/12
		Date Analyzed:	6/21/12 14:43
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1206975-01	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297312
Prep Method:	EPA 3510C	**Extraction Lot:**	160823
Data File Name:	J:\ACQUDATA\6890G\DATA\062112\AR511.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	0.050	U	0.050	
12672-29-6	Aroclor 1248	0.050	U	0.050	
11097-69-1	Aroclor 1254	0.050	U	0.050	
11096-82-5	Aroclor 1260	0.050	U	0.050	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Tetrachloro-m-xylene	71	14-138	6/21/12 14:43	

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	6/21/12
		Date Analyzed:	6/22/12 12:06
Sample Name:	Method Blank	**Units:**	µg/Kg
Lab Code:	RQ1207025-01	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	297355
Prep Method:	EPA 3541	**Extraction Lot:**	160930
Data File Name:	J:\ACQUDATA\GCEXT4\DATA\062212\NI293.D\	**Instrument Name:**	R-GC-56
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
53469-21-9	Aroclor 1242	33	U	33	
12672-29-6	Aroclor 1248	33	U	33	
11097-69-1	Aroclor 1254	33	U	33	
11096-82-5	Aroclor 1260	33	U	33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	87	32-141	6/22/12 12:06	
Tetrachloro-m-xylene	56	12-136	6/22/12 12:06	

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Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Analyzed:	6/29/12 - 7/ 3/12

Replicate Sample Summary
Inorganic Parameters

Sample Name:	B-281	**Units:**	µg/L
Lab Code:	R1203891-001	**Basis:**	NA

Analyte Name	Method	MRL	Sample Result	B-281DUP Duplicate Sample R1203891-001DUP1 Result	Average	RPD	RPD Limit
Arsenic, Total	6010C	10	10 U	10 U	NC	NC	20
Lead, Total	6010C	50	50 U	50 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.
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QA/QC Report

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Analyzed:	6/29/12 - 7/ 3/12

Matrix Spike Summary
Inorganic Parameters

Sample Name:	B-281	**Units:**	µg/L
Lab Code:	R1203891-001	**Basis:**	NA

Analytical Method: 6010C
Prep Method: EPA 3010A

B-281MS
Matrix Spike
R1203891-001MS1

Analyte Name	Sample Result	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Total	ND	49	40	122	75 - 125
Lead, Total	ND	461	500	92	75 - 125

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
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Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Analyzed:	7/ 2/12

Replicate Sample Summary
Inorganic Parameters

Sample Name:	B-281 Dissolved	**Units:**	µg/L
Lab Code:	R1203891-002	**Basis:**	NA

Analyte Name	Method	MRL	Sample Result	B-281 DissolvedDUP Duplicate Sample R1203891-002DUP2 Result	Average	RPD	RPD Limit
Arsenic, Dissolved	6010C	10	10 U	10 U	NC	NC	20
Lead, Dissolved	6010C	50	50 U	50 U	NC	NC	20

Results flagged with an asterisk (*) indicate values outside control criteria.
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Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.005
Sample Matrix: Water

Service Request: R1203891
Date Collected: 6/18/12
Date Received: 6/19/12
Date Analyzed: 7/ 2/12

Matrix Spike Summary
Inorganic Parameters

Sample Name: B-281 Dissolved
Lab Code: R1203891-002

Units: µg/L
Basis: NA

Analytical Method: 6010C
Prep Method: EPA 3010A

B-281 DissolvedMS
Matrix Spike
R1203891-002MS2

Analyte Name	Sample Result	Spike Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Dissolved	ND	42	40	105	75 - 125
Lead, Dissolved	ND	471	500	94	75 - 125

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

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QA/QC Report

Client:	Barton & Loguidice, PC	**Service Request:**	R1203891
Project:	Metalico CAMU/1206.002.005	**Date Collected:**	6/18/12
Sample Matrix:	Water	**Date Received:**	6/19/12
		Date Analyzed:	6/21/12

Matrix Spike Summary
Low Level Polychlorinated Biphenyls (PCBs) by GC

Sample Name:	B-281	**Units:**	µg/L
Lab Code:	R1203891-001	**Basis:**	NA

Analytical Method: 8082A
Prep Method: EPA 3510C

		B-281MS Matrix Spike RQ1206975-06			B-281DMS Duplicate Matrix Spike RQ1206975-07					
Analyte Name	**Sample Result**	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1260	ND	0.294	0.472	62	0.355	0.472	75	51 - 123	19	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Results flagged with a pound (#) indicate the control criteria is not applicable.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.
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Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.005
Sample Matrix: Soil

Service Request: R1203891
Date Analyzed: 6/22/12

Lab Control Sample Summary
Inorganic Parameters

Units: mg/Kg
Basis: Dry

		Lab Control Sample R1203891-LCS1			
Analyte Name	**Method**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**
Arsenic, Total	6010C	95.1	94.5	101	82.3 - 117
Lead, Total	6010C	94.0	91.8	102	82.2 - 117

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.
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Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.005
Sample Matrix: Water

Service Request: R1203891
Date Analyzed: 6/29/12 - 7/ 2/12

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Lab Control Sample
R1203891-LCS2

Analyte Name	Method	Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Dissolved	6010C	40.7	40	102	80 - 120
Arsenic, Total	6010C	40.7	40	102	80 - 120
Lead, Dissolved	6010C	497	500	99	80 - 120
Lead, Total	6010C	497	500	99	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.005
Sample Matrix: Water

Service Request: R1203891
Date Analyzed: 7/ 2/12 - 7/ 3/12

Lab Control Sample Summary
Inorganic Parameters

Units: µg/L
Basis: NA

Analyte Name	Method	Lab Control Sample R1203891-LCS3 Result	Spike Amount	% Rec	% Rec Limits
Arsenic, Dissolved	6010C	40.5	40	101	80 - 120
Arsenic, Total	6010C	40.5	40	101	80 - 120
Lead, Dissolved	6010C	523	500	105	80 - 120
Lead, Total	6010C	523	500	105	80 - 120

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.
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Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.005
Sample Matrix: Water

Service Request: R1203891
Date Analyzed: 6/21/12

Lab Control Sample Summary
Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 160823

	Lab Control Sample RQ1206975-02			Duplicate Lab Control Sample RQ1206975-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1260	0.385	0.500	77	0.395	0.500	79	51 - 123	3	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

COLUMBIA ANALYTICAL SERVICES, INC.
Now part of the ALS Group
QA/QC Report

Client: Barton & Loguidice, PC
Project: Metalico CAMU/1206.002.005
Sample Matrix: Soil

Service Request: R1203891
Date Analyzed: 6/22/12

Lab Control Sample Summary
Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3541

Units: µg/Kg
Basis: Dry

Extraction Lot: 160930

	Lab Control Sample RQ1207025-02			Duplicate Lab Control Sample RQ1207025-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1260	140	167	84	140	167	84	58 - 129	<1	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

August 16, 2012 Service Request No: R1204955

Mr. John Benson
Barton & Loguidice, PC
290 Elwood Davis Drive
P.O. Box 3107
Syracuse, NY 13220

Laboratory Results for: Metalico Site/1206.002.007

Dear Mr. Benson:

Enclosed are the results of the sample(s) submitted to our laboratory on August 1, 2012. For your reference, these analyses have been assigned our service request number **R1204955**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7473. You may also contact me via email at Deb.Patton@alsglobal.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Deb Patton
Project Manager

Columbia Analytical Services
ADDRESS 1565 Jefferson Rd, Building 300, Suite 360, Rochester, NY 14623
PHONE 585-288-5380 | FAX 585-288-8475
Columbia Analytical Services, Inc.
Part of the ALS Group A Campbell Brothers Limited Company
www.caslab.com • www.alsglobal.com

CASE NARRATIVE

This report contains analytical results for the following samples:
Service Request Number: R1204955

Lab ID	Client ID
R1204955-001	SW-002B
R1204955-002	SW-002A

All samples were received in good condition unless otherwise noted on the cooler receipt and preservation check form located at the end of this report.

All samples were preserved in accordance with approved analytical methods.

All samples have been analyzed by the approved methods cited on the analytical results pages.

All holding times and associated QC were within limits.

No analytical or QC problems were encountered.

All sampling activities performed by CAS personnel have been in accordance with "CAS Field Procedures and Measurements Manual" or by client specifications.

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REPORT QUALIFIERS

U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.

J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).

B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.

E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.

E Organics- Concentration has exceeded the calibration range for that specific analysis.

D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.

* Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.

H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.

Spike was diluted out.

+ Correlation coefficient for MSA is <0.995.

N Inorganics- Matrix spike recovery was outside laboratory limits.

N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.

S Concentration has been determined using Method of Standard Additions (MSA).

W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.

P Concentration >40% (25% for CLP) difference between the two GC columns.

C Confirmed by GC/MS

Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).

X See Case Narrative for discussion.

ACCREDITED IN ACCORDANCE WITH nelac

CAS/Rochester Lab ID # for State Certifications[1]

NELAP Accredited	Nevada ID # NY-00032
Connecticut ID # PH0556	New Jersey ID # NY004
Delaware Accredited	New York ID # 10145
DoD ELAP #65817	New Hampshire ID # 294100 A/B
Florida ID # E87674	North Carolina #676
Illinois ID #200047	Pennsylvania ID# 68-786
Maine ID #NY0032	Rhode Island ID # 158
Nebraska Accredited	Virginia #460167

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to the certifications section at www.caslab.com.

Client:	Barton & Loguidice, PC	**Service Request:**	R1204955
Project:	Metalico Site/1206.002.007	**Date Collected:**	7/31/12 1300
Sample Matrix:	Soil	**Date Received:**	8/ 1/12
Sample Name:	SW-002B		
Lab Code:	R1204955-001	**Basis:**	As Received

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Solids, Total	160.3 Modified	**53.0**		Percent	1.0	1	NA	8/6/12 13:50	

Client:	Barton & Loguidice, PC	**Service Request:**	R1204955
Project:	Metalico Site/1206.002.007	**Date Collected:**	7/31/12 1300
Sample Matrix:	Soil	**Date Received:**	8/ 1/12
Sample Name:	SW-002B		
Lab Code:	R1204955-001	**Basis:**	Dry
		Percent Solids:	53.0

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	**6.6**		mg/Kg	1.8	1	8/ 8/12	8/13/12 19:42	
Lead, Total	6010C	**285**		mg/Kg	9.0	1	8/ 8/12	8/13/12 19:42	

Client:	Barton & Loguidice, PC	**Service Request:**	R1204955
Project:	Metalico Site/1206.002.007	**Date Collected:**	7/31/12 1300
Sample Matrix:	Soil	**Date Received:**	8/ 1/12
		Date Extracted:	8/6/12
		Date Analyzed:	8/8/12 15:25
Sample Name:	SW-002B	**Units:**	µg/Kg
Lab Code:	R1204955-001	**Basis:**	Dry
		Percent Solids:	53.0

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	304092
Prep Method:	EPA 3541	**Extraction Lot:**	163997
Data File Name:	J:\ACQUDATA\6890G\DATA\080812\AS133.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
12674-11-2	Aroclor 1016	62	U	62	33	
11104-28-2	Aroclor 1221	130	U	130	65	
11141-16-5	Aroclor 1232	62	U	62	33	
53469-21-9	Aroclor 1242	62	U	62	33	
12672-29-6	Aroclor 1248	120		62	33	
11097-69-1	Aroclor 1254	91		62	36	
11096-82-5	Aroclor 1260	44	J	62	33	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	62	32-141	8/8/12 15:25	
Tetrachloro-m-xylene	58	12-136	8/8/12 15:25	

Client:	Barton & Loguidice, PC	**Service Request:**	R1204955
Project:	Metalico Site/1206.002.007	**Date Collected:**	7/31/12 1315
Sample Matrix:	Soil	**Date Received:**	8/ 1/12
Sample Name:	SW-002A		
Lab Code:	R1204955-002	**Basis:**	As Received

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Solids, Total	160.3 Modified	56.6		Percent	1.0	1	NA	8/6/12 13:50	

Client:	Barton & Loguidice, PC	**Service Request:**	R1204955
Project:	Metalico Site/1206.002.007	**Date Collected:**	7/31/12 1315
Sample Matrix:	Soil	**Date Received:**	8/ 1/12
Sample Name:	SW-002A		
Lab Code:	R1204955-002	**Basis:**	Dry
		Percent Solids:	56.6

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	17.9		mg/Kg	1.7	1	8/ 8/12	8/13/12 19:48	
Lead, Total	6010C	925		mg/Kg	8.7	1	8/ 8/12	8/13/12 19:48	

Client:	Barton & Loguidice, PC	**Service Request:**	R1204955
Project:	Metalico Site/1206.002.007	**Date Collected:**	7/31/12 1315
Sample Matrix:	Soil	**Date Received:**	8/ 1/12
		Date Extracted:	8/6/12
		Date Analyzed:	8/8/12 15:59
Sample Name:	SW-002A	**Units:**	µg/Kg
Lab Code:	R1204955-002	**Basis:**	Dry
		Percent Solids:	56.6

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	304092
Prep Method:	EPA 3541	**Extraction Lot:**	163997
Data File Name:	J:\ACQUDATA\6890G\DATA\080812\AS134.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
12674-11-2	Aroclor 1016	58	U	58	31	
11104-28-2	Aroclor 1221	120	U	120	61	
11141-16-5	Aroclor 1232	58	U	58	31	
53469-21-9	Aroclor 1242	58	U	58	31	
12672-29-6	Aroclor 1248	150		58	31	
11097-69-1	Aroclor 1254	130		58	34	
11096-82-5	Aroclor 1260	53	J	58	31	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	65	32-141	8/8/12 15:59	
Tetrachloro-m-xylene	66	12-136	8/8/12 15:59	

Client:	Barton & Loguidice, PC	**Service Request:**	R1204955
Project:	Metalico Site/1206.002.007	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1204955-MB1	**Basis:**	As Received

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Solids, Total	160.3 Modified	1.0	U	Percent	1.0	1	NA	8/6/12 13:50	

Client:	Barton & Loguidice, PC	**Service Request:**	R1204955
Project:	Metalico Site/1206.002.007	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1204955-MB2	**Basis:**	As Received

General Chemistry Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Solids, Total	160.3 Modified	1.0	U	Percent	1.0	1	NA	8/6/12 13:50	

Client:	Barton & Loguidice, PC	**Service Request:**	R1204955
Project:	Metalico Site/1206.002.007	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1204955-MB	**Basis:**	Dry

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	1.0	U	mg/Kg	1.0	1	8/ 8/12	8/13/12 15:09	
Lead, Total	6010C	5.0	U	mg/Kg	5.0	1	8/ 8/12	8/13/12 15:09	

Client:	Barton & Loguidice, PC	**Service Request:**	R1204955
Project:	Metalico Site/1206.002.007	**Date Collected:**	NA
Sample Matrix:	Soil	**Date Received:**	NA
		Date Extracted:	8/6/12
		Date Analyzed:	8/6/12 15:50
Sample Name:	Method Blank	**Units:**	µg/Kg
Lab Code:	RQ1208948-01	**Basis:**	Dry

Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	303681
Prep Method:	EPA 3541	**Extraction Lot:**	163997
Data File Name:	J:\ACQUDATA\6890G\DATA\080612\AS102.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	MDL	Note
12674-11-2	Aroclor 1016	33	U	33	17	
11104-28-2	Aroclor 1221	67	U	67	34	
11141-16-5	Aroclor 1232	33	U	33	17	
53469-21-9	Aroclor 1242	33	U	33	17	
12672-29-6	Aroclor 1248	33	U	33	17	
11097-69-1	Aroclor 1254	33	U	33	19	
11096-82-5	Aroclor 1260	33	U	33	17	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	82	32-141	8/6/12 15:50	
Tetrachloro-m-xylene	75	12-136	8/6/12 15:50	

Client: Barton & Loguidice, PC
Project: Metalico Site/1206.002.007
Sample Matrix: Soil

Service Request: R1204955
Date Analyzed: 8/13/12

Lab Control Sample Summary
Inorganic Parameters

Units: mg/Kg
Basis: Dry

		Lab Control Sample R1204955-LCS			
Analyte Name	**Method**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**
Arsenic, Total	6010C	87.3	94.5	92	82.3 - 117
Lead, Total	6010C	88.8	91.8	97	82.2 - 117

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

August 31, 2012 Service Request No: R1205209

Mr. John Benson
Barton & Loguidice, PC
290 Elwood Davis Drive
P.O. Box 3107
Syracuse, NY 13220

Laboratory Results for: Metalico Monitoring Wells/1206.001

Dear Mr. Benson:

Enclosed are the results of the sample(s) submitted to our laboratory on August 9, 2012. For your reference, these analyses have been assigned our service request number **R1205209.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and Columbia Analytical Services, Inc. dba ALS Environmental (ALS) is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7473. You may also contact me via email at Deb.Patton@alsglobal.com.

Respectfully submitted,

Columbia Analytical Services, Inc. dba ALS Environmental

Deb Patton
Project Manager

Client:	Barton & Loguidice, PC	**Service Request:**	R1205209
Project:	Metalico Monitoring Wells/1206.001	**Date Collected:**	8/ 9/12 0945
Sample Matrix:	Water	**Date Received:**	8/ 9/12
Sample Name:	MW-8R		
Lab Code:	R1205209-001	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	16		µg/L	10	1	8/14/12	8/22/12 11:06	
Lead, Total	6010C	50	U	µg/L	50	1	8/14/12	8/22/12 11:06	

Client:	Barton & Loguidice, PC	**Service Request:**	R1205209
Project:	Metalico Monitoring Wells/1206.001	**Date Collected:**	8/ 9/12 0945
Sample Matrix:	Water	**Date Received:**	8/ 9/12
Sample Name:	MW-8R Dissolved		
Lab Code:	R1205209-002	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	8/14/12	8/22/12 11:12	
Lead, Dissolved	6010C	50	U	µg/L	50	1	8/14/12	8/22/12 11:12	

Client:	Barton & Loguidice, PC	**Service Request:**	R1205209
Project:	Metalico Monitoring Wells/1206.001	**Date Collected:**	8/ 9/12 0945
Sample Matrix:	Water	**Date Received:**	8/ 9/12
		Date Extracted:	8/16/12
		Date Analyzed:	8/22/12 13:06
Sample Name:	MW-8R	**Units:**	µg/L
Lab Code:	R1205209-001	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	306248
Prep Method:	EPA 3510C	**Extraction Lot:**	164854
Data File Name:	J:\ACQUDATA\6890G\DATA\082212\AS261.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.047	U	0.047	
11104-28-2	Aroclor 1221	0.047	U	0.047	
11141-16-5	Aroclor 1232	0.047	U	0.047	
53469-21-9	Aroclor 1242	0.047	U	0.047	
12672-29-6	Aroclor 1248	0.047	U	0.047	
11097-69-1	Aroclor 1254	**1.3**		0.047	
11096-82-5	Aroclor 1260	**0.18**	P	0.047	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	49	10-146	8/22/12 13:06	
Tetrachloro-m-xylene	52	14-138	8/22/12 13:06	

Client:	Barton & Loguidice, PC	**Service Request:**	R1205209
Project:	Metalico Monitoring Wells/1206.001	**Date Collected:**	8/ 9/12 0945
Sample Matrix:	Water	**Date Received:**	8/ 9/12
		Date Extracted:	8/24/12
		Date Analyzed:	8/29/12 15:08
Sample Name:	MW-8R	**Units:**	µg/L
Lab Code:	R1205209-001	**Basis:**	NA
Run Type:	Reanalysis		

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	307318
Prep Method:	EPA 3510C	**Extraction Lot:**	165564
Data File Name:	J:\ACQUDATA\6890G\DATA\082912\AS332.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.047	U	0.047	*
11104-28-2	Aroclor 1221	0.047	U	0.047	*
11141-16-5	Aroclor 1232	0.047	U	0.047	*
53469-21-9	Aroclor 1242	0.047	U	0.047	*
12672-29-6	Aroclor 1248	**0.80**		0.047	*
11097-69-1	Aroclor 1254	**1.1**		0.047	*
11096-82-5	Aroclor 1260	**0.13**	P	0.047	*

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	53	10-146	8/29/12 15:08	
Tetrachloro-m-xylene	66	14-138	8/29/12 15:08	

Client:	Barton & Loguidice, PC	**Service Request:**	R1205209
Project:	Metalico Monitoring Wells/1206.001	**Date Collected:**	8/ 9/12 0850
Sample Matrix:	Water	**Date Received:**	8/ 9/12
Sample Name:	B-290		
Lab Code:	R1205209-003	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	10		µg/L	10	1	8/14/12	8/22/12 11:18	
Lead, Total	6010C	50	U	µg/L	50	1	8/14/12	8/22/12 11:18	

Client:	Barton & Loguidice, PC	**Service Request:**	R1205209
Project:	Metalico Monitoring Wells/1206.001	**Date Collected:**	8/ 9/12 0850
Sample Matrix:	Water	**Date Received:**	8/ 9/12
Sample Name:	B-290 Dissolved		
Lab Code:	R1205209-004	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	8/14/12	8/22/12 11:24	
Lead, Dissolved	6010C	50	U	µg/L	50	1	8/14/12	8/22/12 11:24	

Client:	Barton & Loguidice, PC	**Service Request:**	R1205209
Project:	Metalico Monitoring Wells/1206.001	**Date Collected:**	8/ 9/12 0915
Sample Matrix:	Water	**Date Received:**	8/ 9/12
Sample Name:	B-402R		
Lab Code:	R1205209-005	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Total	6010C	12		µg/L	10	1	8/14/12	8/22/12 11:30	
Lead, Total	6010C	50	U	µg/L	50	1	8/14/12	8/22/12 11:30	

Client:	Barton & Loguidice, PC	**Service Request:**	R1205209
Project:	Metalico Monitoring Wells/1206.001	**Date Collected:**	8/ 9/12 0915
Sample Matrix:	Water	**Date Received:**	8/ 9/12
Sample Name:	B-402R Dissolved		
Lab Code:	R1205209-006	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	8/14/12	8/22/12 11:47	
Lead, Dissolved	6010C	50	U	µg/L	50	1	8/14/12	8/22/12 11:47	

Client:	Barton & Loguidice, PC	**Service Request:**	R1205209
Project:	Metalico Monitoring Wells/1206.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank		
Lab Code:	R1205209-MB	**Basis:**	NA

Inorganic Parameters

Analyte Name	Method	Result	Q	Units	MRL	Dilution Factor	Date Extracted	Date Analyzed	Note
Arsenic, Dissolved	6010C	10	U	µg/L	10	1	8/14/12	8/22/12 08:19	
Arsenic, Total	6010C	10	U	µg/L	10	1	8/14/12	8/22/12 08:19	
Lead, Dissolved	6010C	50	U	µg/L	50	1	8/14/12	8/22/12 08:19	
Lead, Total	6010C	50	U	µg/L	50	1	8/14/12	8/22/12 08:19	

Client:	Barton & Loguidice, PC	**Service Request:**	R1205209
Project:	Metalico Monitoring Wells/1206.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	8/16/12
		Date Analyzed:	8/22/12 11:24
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1209471-01	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	306248
Prep Method:	EPA 3510C	**Extraction Lot:**	164854
Data File Name:	J:\ACQUDATA\6890G\DATA\082212\AS258.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.050	U	0.050	
11104-28-2	Aroclor 1221	0.050	U	0.050	
11141-16-5	Aroclor 1232	0.050	U	0.050	
53469-21-9	Aroclor 1242	0.050	U	0.050	
12672-29-6	Aroclor 1248	0.050	U	0.050	
11097-69-1	Aroclor 1254	0.050	U	0.050	
11096-82-5	Aroclor 1260	0.050	U	0.050	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	61	10-146	8/22/12 11:24	
Tetrachloro-m-xylene	57	14-138	8/22/12 11:24	

Client:	Barton & Loguidice, PC	**Service Request:**	R1205209
Project:	Metalico Monitoring Wells/1206.001	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
		Date Extracted:	8/24/12
		Date Analyzed:	8/29/12 13:26
Sample Name:	Method Blank	**Units:**	µg/L
Lab Code:	RQ1209904-01	**Basis:**	NA

Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method:	8082A	**Analysis Lot:**	307318
Prep Method:	EPA 3510C	**Extraction Lot:**	165564
Data File Name:	J:\ACQUDATA\6890G\DATA\082912\AS329.D\	**Instrument Name:**	R-GC-58
		Dilution Factor:	1

CAS No.	Analyte Name	Result	Q	MRL	Note
12674-11-2	Aroclor 1016	0.050	U	0.050	
11104-28-2	Aroclor 1221	0.050	U	0.050	
11141-16-5	Aroclor 1232	0.050	U	0.050	
53469-21-9	Aroclor 1242	0.050	U	0.050	
12672-29-6	Aroclor 1248	0.050	U	0.050	
11097-69-1	Aroclor 1254	0.050	U	0.050	
11096-82-5	Aroclor 1260	0.050	U	0.050	

Surrogate Name	%Rec	Control Limits	Date Analyzed	Q
Decachlorobiphenyl	61	10-146	8/29/12 13:26	
Tetrachloro-m-xylene	61	14-138	8/29/12 13:26	

Client: Barton & Loguidice, PC
Project: Metalico Monitoring Wells/1206.001
Sample Matrix: Water

Service Request: R1205209
Date Analyzed: 8/22/12

Lab Control Sample Summary
Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 164854

	Lab Control Sample RQ1209471-02				Duplicate Lab Control Sample RQ1209471-03					
Analyte Name	Result	Spike Amount	% Rec		Result	Spike Amount	% Rec		% Rec Limits	RPD	RPD Limit
Aroclor 1260	0.050 U	0.500	0	*	0.127	0.500	25	*	51 - 123	200 *	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.

Client: Barton & Loguidice, PC
Project: Metalico Monitoring Wells/1206.001
Sample Matrix: Water

Service Request: R1205209
Date Analyzed: 8/29/12

Lab Control Sample Summary
Low Level Polychlorinated Biphenyls (PCBs) by GC

Analytical Method: 8082A
Prep Method: EPA 3510C

Units: µg/L
Basis: NA

Extraction Lot: 165564

	Lab Control Sample RQ1209904-02			Duplicate Lab Control Sample RQ1209904-03					
Analyte Name	**Result**	**Spike Amount**	**% Rec**	**Result**	**Spike Amount**	**% Rec**	**% Rec Limits**	**RPD**	**RPD Limit**
Aroclor 1260	0.406	0.500	81	0.466	0.500	93	51 - 123	14	30

Results flagged with an asterisk (*) indicate values outside control criteria.
Percent recoveries and relative percent differences (RPD) are determined by the software using values in the calculation which have not been rounded.